

# KV-1365

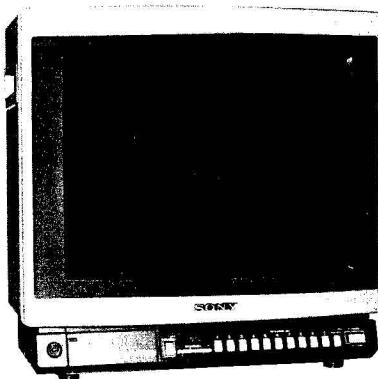
## SERVICE MANUAL

*US Model*

*Chassis No. SCC-548X-A*

*Canadian Model*

*Chassis No. SCC-552M-A*



April, 1985

# KV-1370D

## P3 CHASSIS

### SPECIFICATIONS

Television system	American TV standards
Channel coverage	VHF channels 2 - 13 UHF channels 14 - 69 Cable TV channels 1 - 99
Picture tube	Trinitron tube <b>13-inch picture tube measured diagonally</b> 90-degree deflection
Inputs VIDEO	1V p-p, 75 ohms unbalanced, sync negative
AUDIO	408 mV rms (100% modulation, 47 kilohms)
Power requirements	120 V AC, 60 Hz
Power consumption	91 W (max.)
Accessories supplied	Earphone (1) VHF/UHF telescopic dipole antenna AN-18 (1) Antenna connector (1)
Optional accessories	UV mixer EAC-66 Connecting cables VMC-606M VMC-607M etc.

Design and specifications subject to change without notice.



MICROFILM

TRINITRON® COLOR TV  
**SONY**®

**CTV**

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## WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

## SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

## ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

## ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDUITÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

## SAFETY CHECK-OUT

(US MODEL ONLY)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

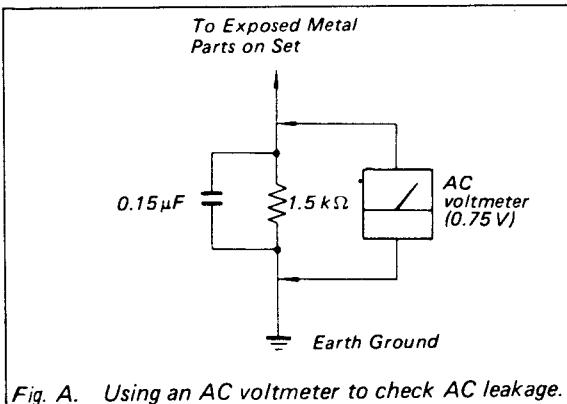


Fig. A. Using an AC voltmeter to check AC leakage.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

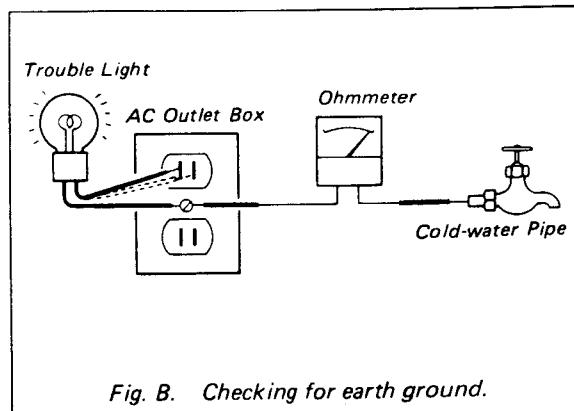
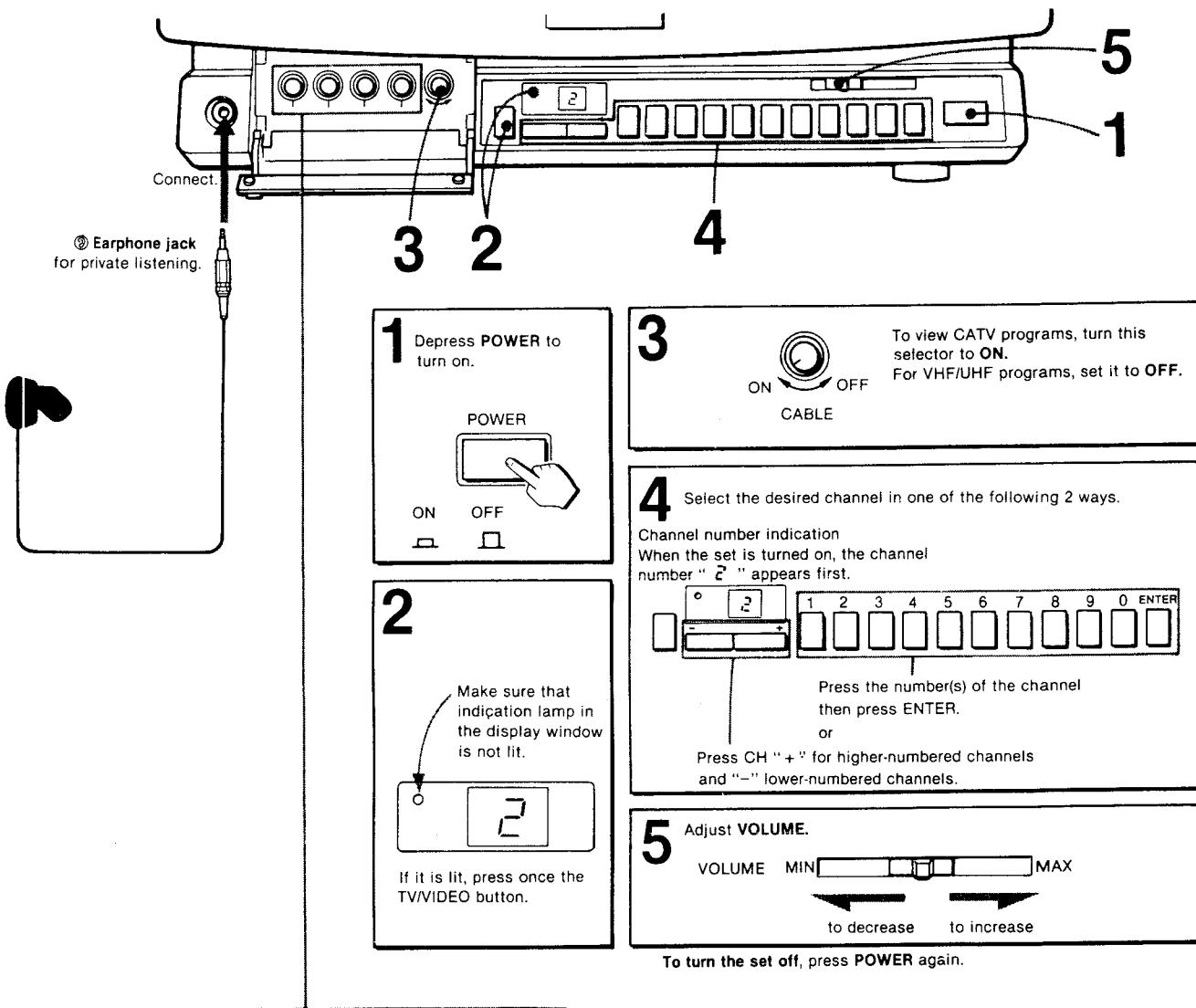


Fig. B. Checking for earth ground.

## **SECTION 1 GENERAL**

## 1-1. TV OPERATION

For normal TV operation, follow the steps (1 through 5).



## **PICTURE ADJUSTMENTS**

If any adjustment is necessary, adjust the appropriate control as described below.



skin tones  
become  
purplish



or less color intensity for more color intensity



for less  
brightness      for more  
brightness



to decrease picture contrast      to increase picture contrast

Check with your local cable TV company for more complete information on the available channels.

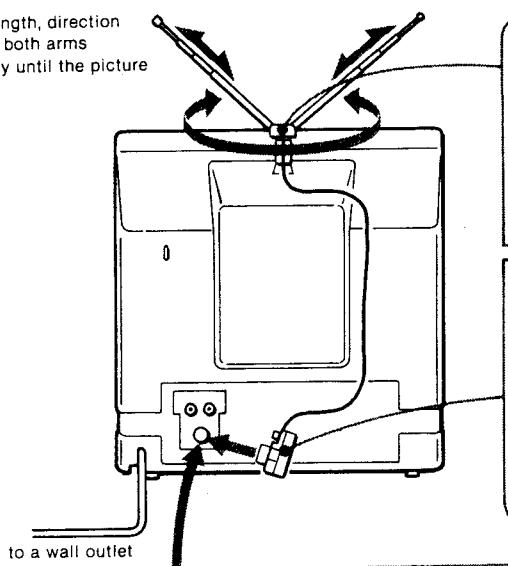
\* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

## 1-2. ANTENNA/CABLE CONNECTION

### INDOOR ANTENNA CONNECTION

For VHF/UHF reception, use the supplied dipole telescopic antenna.

Adjust the length, direction and angle of both arms symmetrically until the picture is clear.



- 1** Insert the projection into the antenna receptacle on the set.
- 2** Plug the antenna connector into the VHF/UHF antenna terminal.

### OUTDOOR ANTENNA/CABLE CONNECTION

If you cannot obtain satisfactory reception with the dipole antenna, using an outdoor antenna may be necessary.

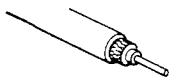
Cable TV reception is only possible by connecting a cable supplied by your local cable operator.

- 1** Remove the indoor antenna from the antenna terminal of the TV.
- 2** Prepare the antenna or cable end using the appropriate connector, and connect the antenna or cable to the antenna terminal of the TV. (See A or B below.)

#### A Combination VHF/UHF antenna,\* VHF antenna, UHF antenna or CATV cable

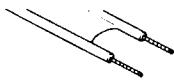
Select the proper connector according to the cable type.

When the cable is a 75-ohm coaxial type (round)

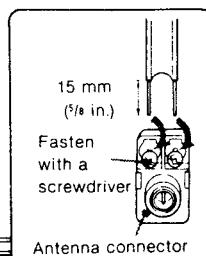
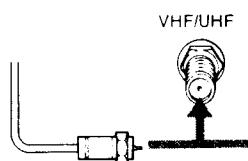


Use an optional F-type connector.

When the cable is a 300-ohm ribbon type lead-in (flat)



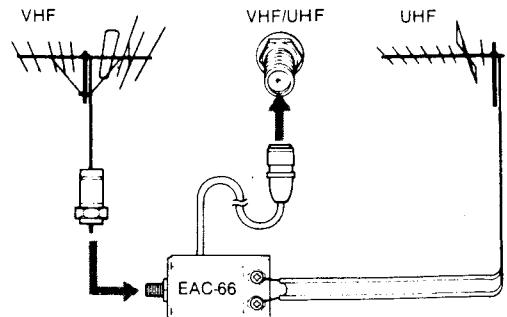
Attach the antenna connector which was fixed to the indoor antenna.



\* Most combination antennas are equipped with a signal splitter. Take off the splitter and attach the proper connector.

#### B When both VHF and UHF antennas are connected

Prepare the VHF antenna end using the appropriate connector as illustrated in A. Attach an optional EAC-66 U/V mixer to the TV antenna terminal, and connect the cables to the U/V mixer.



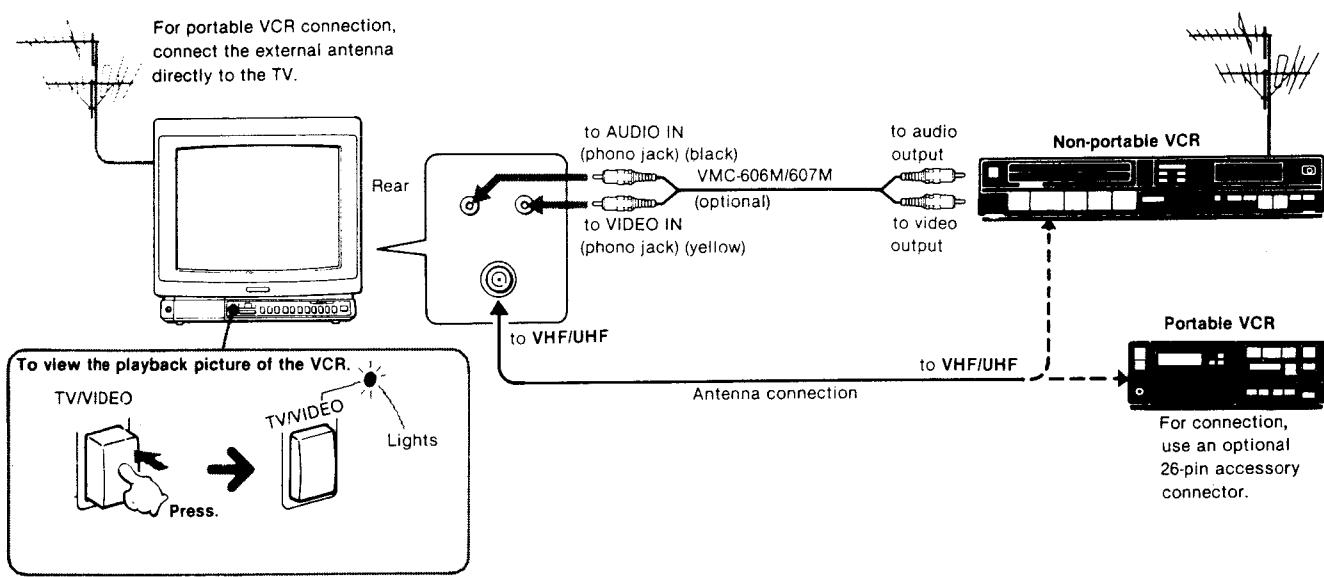
When the cable is connected to the TV with the U/V mixer, snow and noise may appear in the pictures of the cable TV channels over 37 (W + 1).

## 1-3. AUDIO AND VIDEO INPUT JACKS

You can view the picture generated by equipment connected to the AUDIO IN and VIDEO IN jacks by simply pressing the TV/VIDEO button.

We recommend using the AUDIO IN and VIDEO IN jacks to view VCR programs in better picture quality.

## Connection of a VCR

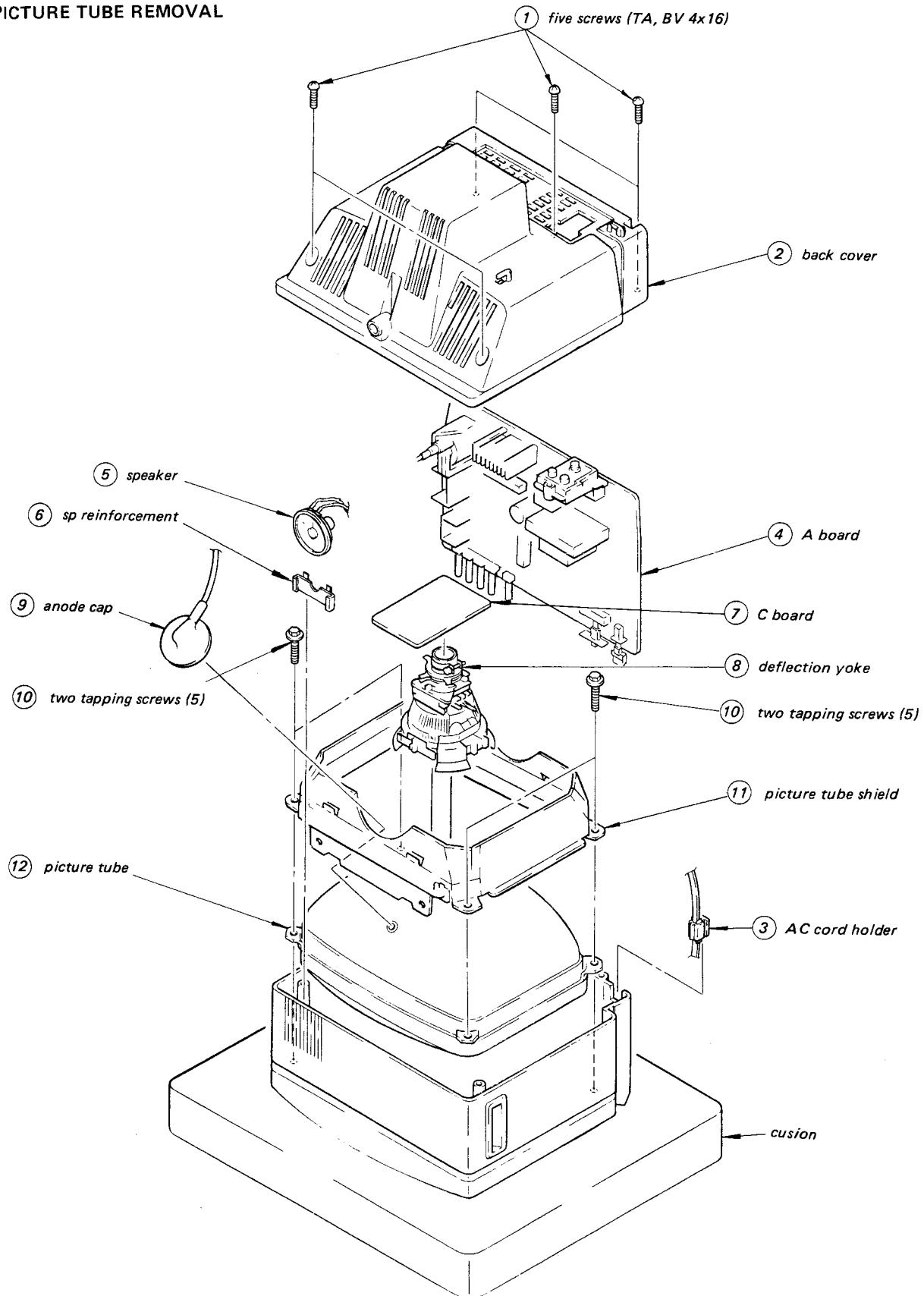


## Notes on connections

- Before connecting, make sure that the power to each piece of equipment is turned off.
- For details on connections, refer to the instruction manuals of the equipment to be connected.
- The plugs should be fully inserted into the jacks. A loose connection may cause hum and noise.
- Match the colors of the plugs to that of the jacks.
- Move the VCR away from the TV if the display or sound is affected by the magnets in the TV.

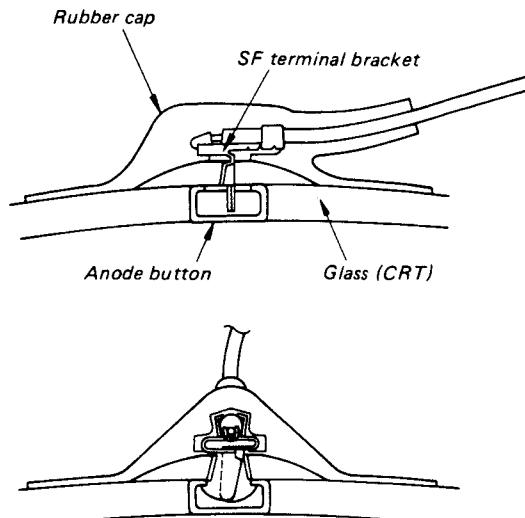
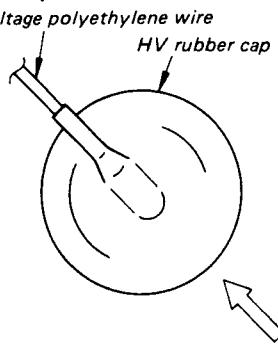
## SECTION 2 DISASSEMBLY

### 2-1. PICTURE TUBE REMOVAL



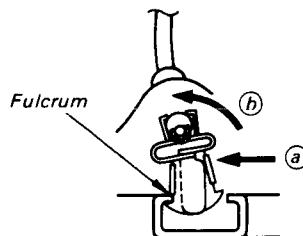
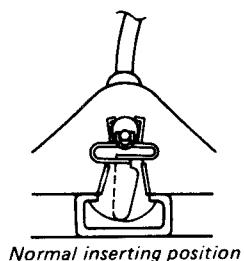
## 2-2. REMOVAL OF ANODE CAP

## • Anode Cap Structure



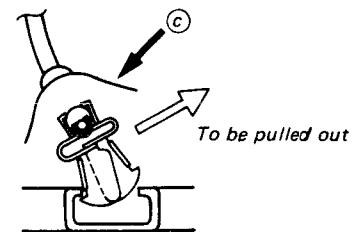
Cross section viewed from the arrow A

## • Removal of SF Terminal



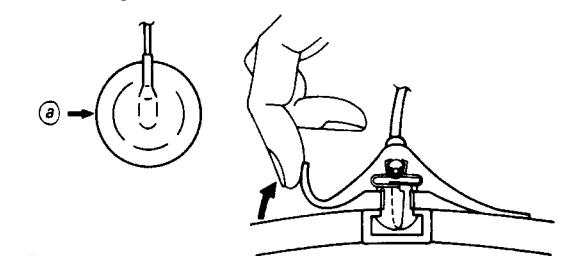
When pushing in the direction indicated by the arrow (a), the SF terminal tilts toward the fulcrum side due to the spring characteristic.

Remove it by pulling up in the direction indicated by the arrow (b) with the SF terminal tilted.

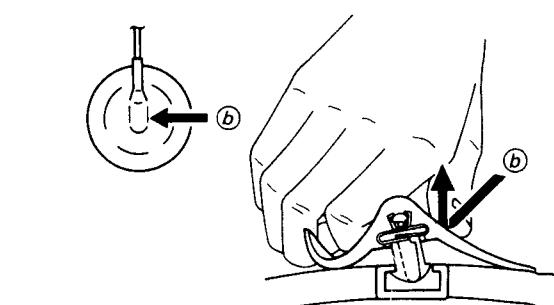
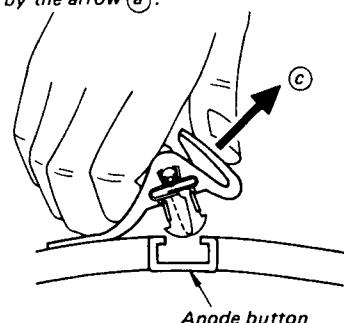


Tilt the SF terminal in the direction of the arrow (c) and pull out it in the direction (of 45°) indicated by the arrow.

## • Removing Procedures



① Turn up one side of the rubber cap in the direction indicated by the arrow (a).



② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow (b).

③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

### SECTION 3 SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

(●) (picture) control ..... maximum

(●) (brightness) control ..... maximum (fully clockwise)

#### 3-1. BEAM LANDING

##### Preparation:

- Feed in the white pattern.
  - Before starting, degauss the entire screen.
- Turn on set power supply and receive an all-white signal.
  - Evenly degauss the entire screen.
  - Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Figure 3-1.
  - Set BKG VR (R) to maximum and set (B) and (G) to minimum.
  - Move the deflection yoke back, and adjust the purity control so that (R) is in the center and (G) and (B) are at the sides, evenly. (Figure 3-2.)
  - Move the deflection yoke forward so that the entire screen is red.
  - If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
  - Substitute (G), then (B) for (R) in step 4 and check landing.
  - Rotate (R), (G) and (B) once each and check landing.
  - When landing is not right, adjust the purity control and use magnets as shown in Figure 3-3, then repeat steps 7 and 8.
  - When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance

**Note:** Test Equipment Required.  
1. Color-bar/Pattern Generator  
2. Degausser

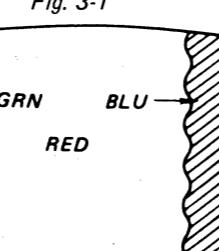
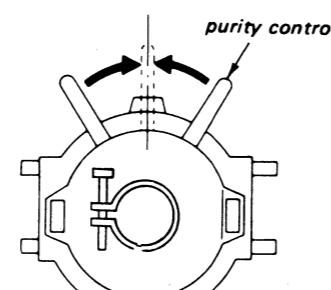
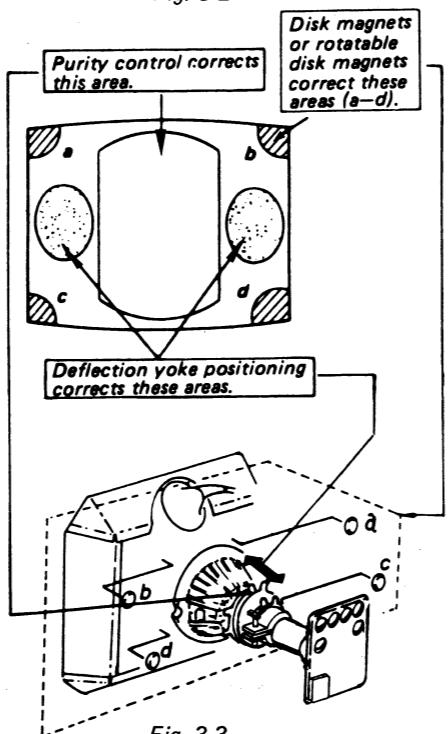


Fig. 3-2



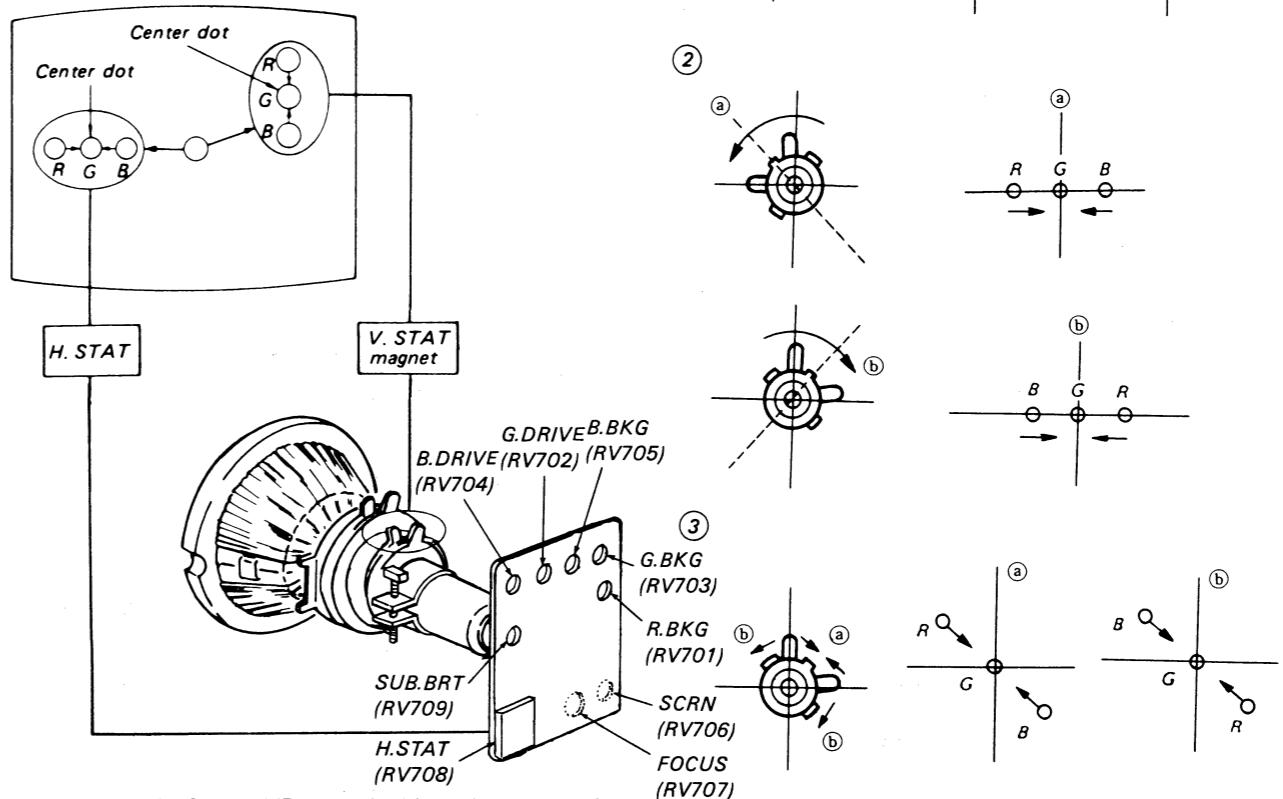
C Board

#### 3-2. CONVERGENCE

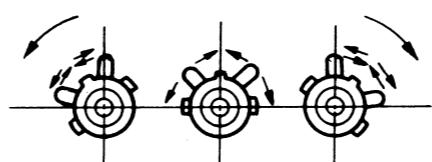
##### Preparation:

- Before starting this adjustment, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHT control to minimum and PICTURE control mechanical center.
- Feed in a dot pattern.

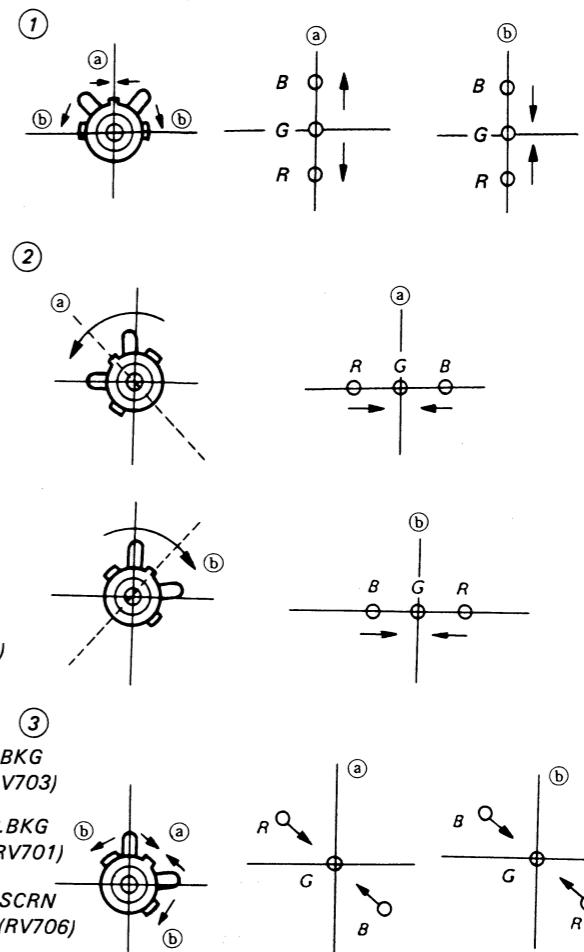
##### (1) Horizontal and Vertical Static Convergence



1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



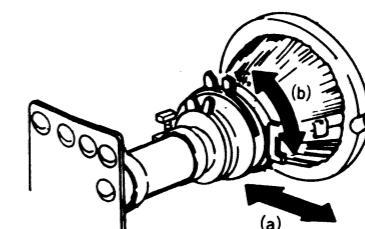
4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.



If blue dot does not coincide with red and green dots, perform following steps.

- Move BMC magnet (a) to correct insufficient H. static convergence.  
Rotate BMC magnet (b) to correct insufficient V. static convergence.

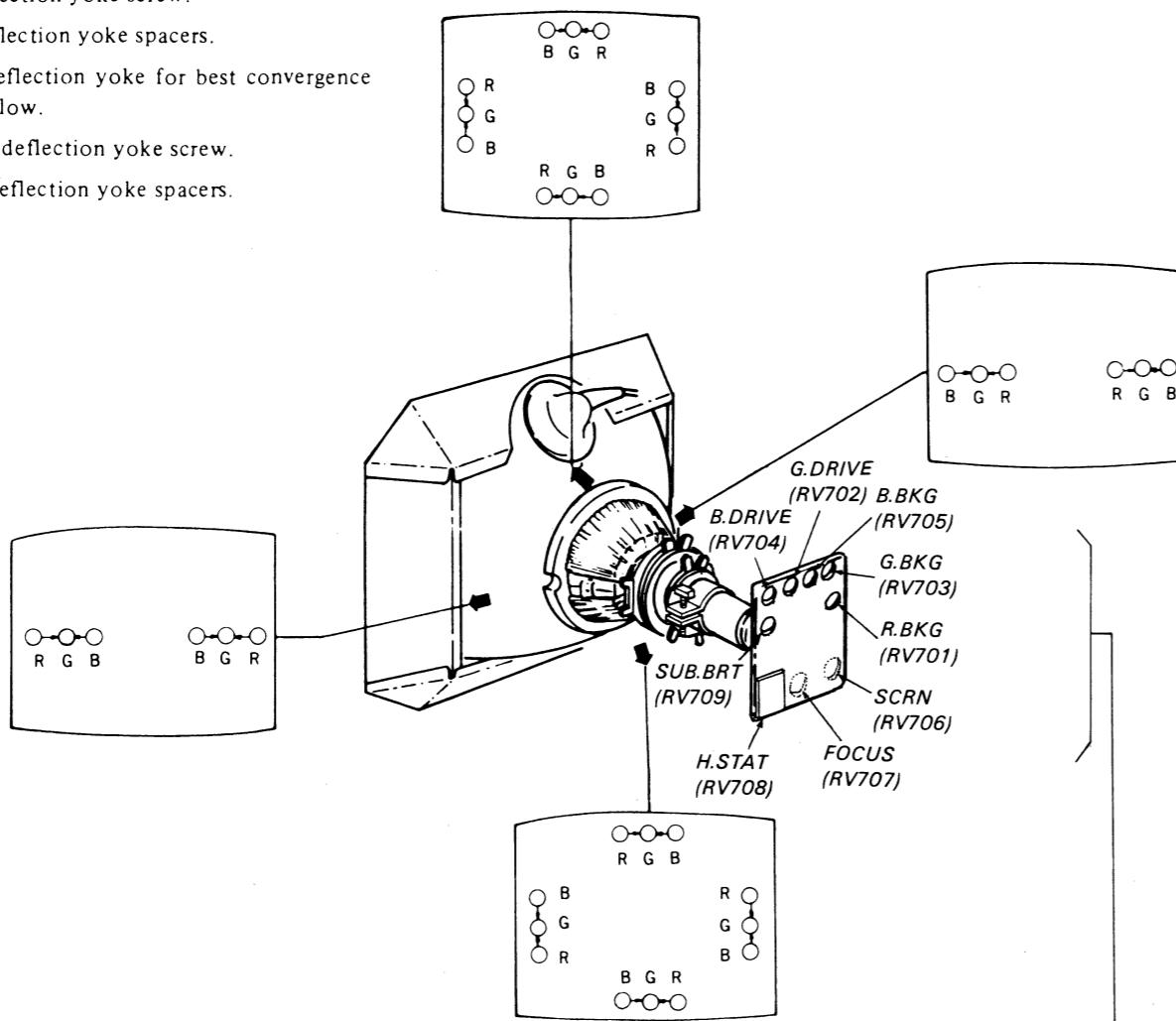
In either case, repeat Beam Landing Adjustment.



## (2) Dynamic Convergence Adjustment

## Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
- Loosen deflection yoke screw.
- Remove deflection yoke spacers.
- Move the deflection yoke for best convergence as shown below.
- Tighten the deflection yoke screw.
- Install the deflection yoke spacers.



## 3-3. WHITE BALANCE

[SCREEN (G<sub>2</sub>)]

- Input a dots pattern.
- Set the PICTURE control at minimum and turn the BRIGHT control fully counterclockwise.
- Confirm that BKG voltage is less than 160V dc when turning RV701 (R.BKG), RV703 (G.BKG) and RV705 (B.BKG).
- Note the color which becomes visible first when turning RV706.

## [WHITE BALANCE (Cut off)]

- Input a all white signal.
- Set the PICTURE control to minimum and turn the BRIGHT control mechanical center.

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## Note: (1) TEST EQUIPMENT REQUIRED

- Oscilloscope
- Digital multimeter
- Color-bar/pattern generator
- Variable auto-transformer
- Isolation transformer
- Regulated-dc power supply

## (2) INPUT SIGNAL

When making these adjustments, supply a color-bar or an off-air signal.

## (3) CONTROL SETTING

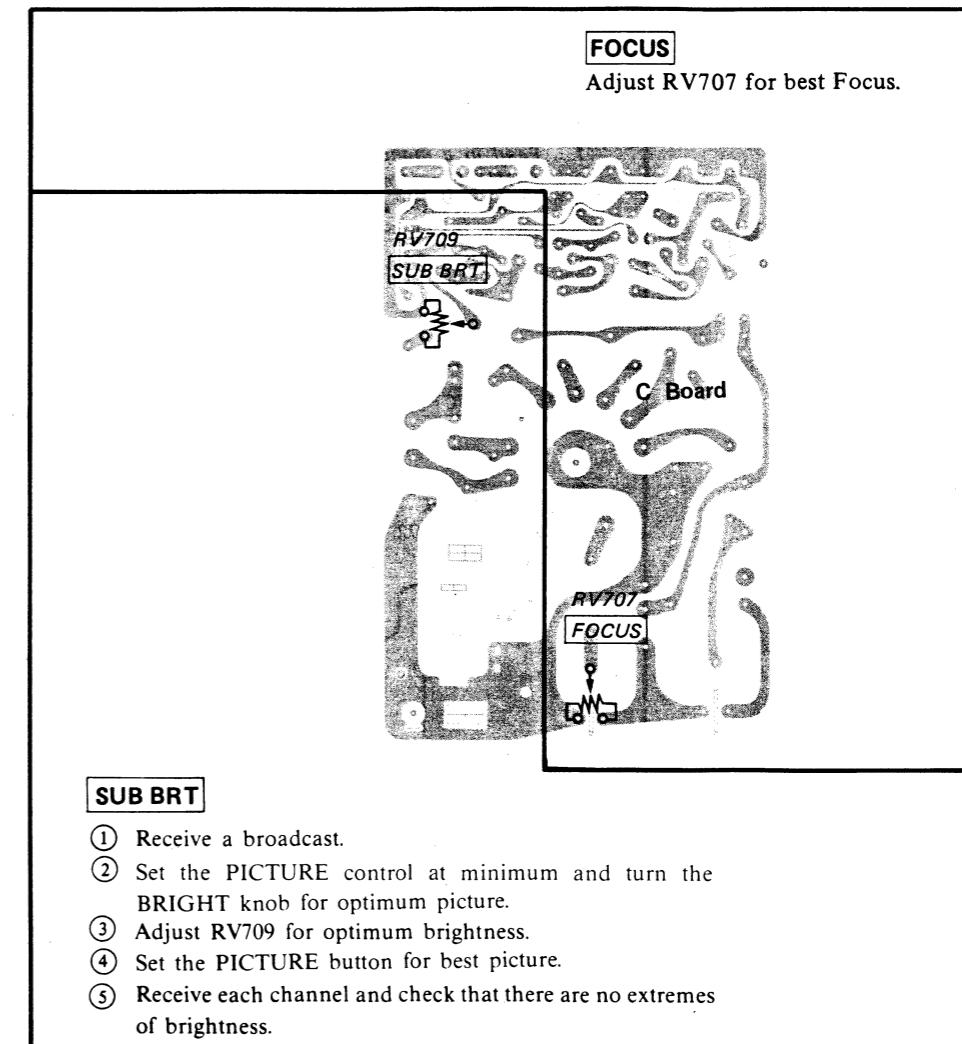
Controls and switches should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control } initial setting  
COLOR control }

V. HOLD control ..... set for stable picture  
BRIGHT control ..... set for best picture

(4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

## 4-1. C BOARD ADJUSTMENTS

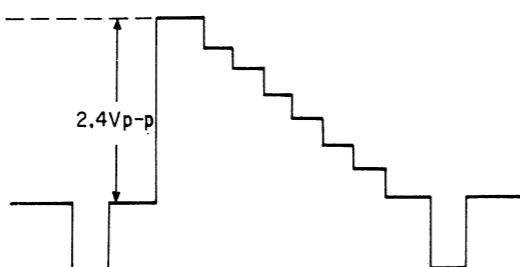


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## 4-2. A BOARD ADJUSTMENTS

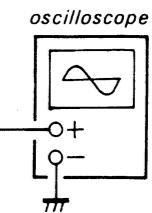
## SUB PICTURE

1. Feed in a color-bar signal.  
• PIC VR ..... MAX  
• BRT VR ..... center position  
• COL VR ..... MIN  
• HUE VR ..... center position
2. Connect an oscilloscope to the pin ⑯ of IC301. Turn RV305 and adjust to 2.4 Vp-p.

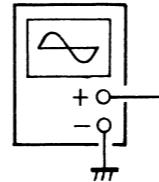


## 3.58 MHz TRAP

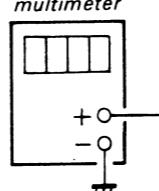
1. Feed in a color-bar signal  
PIC VR... MAX, BRT VR... center position  
COL VR... MIN, HUR VR... center position
2. Connect an oscilloscope to the pin ⑯ of IC301.
3. Adjust by RV306 so that chroma-components become minimum.



## oscilloscope

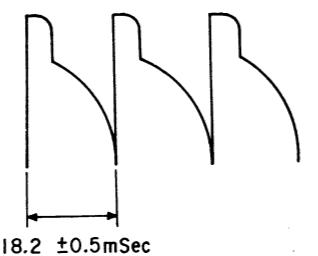


## digital multimeter

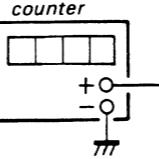


## V.VOLTAGE AT CENTER TAP ADJUSTMENT (V.VIAS)

1. Feed in a monoscope signal.  
PICTURE control VR center position.
2. Adjust RV504 so that voltage of V.deflection yoke connector (granded side) is  $12.0 \pm 0.2$  Vdc.



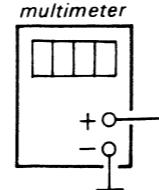
## frequency counter



## V.FREQUENCY

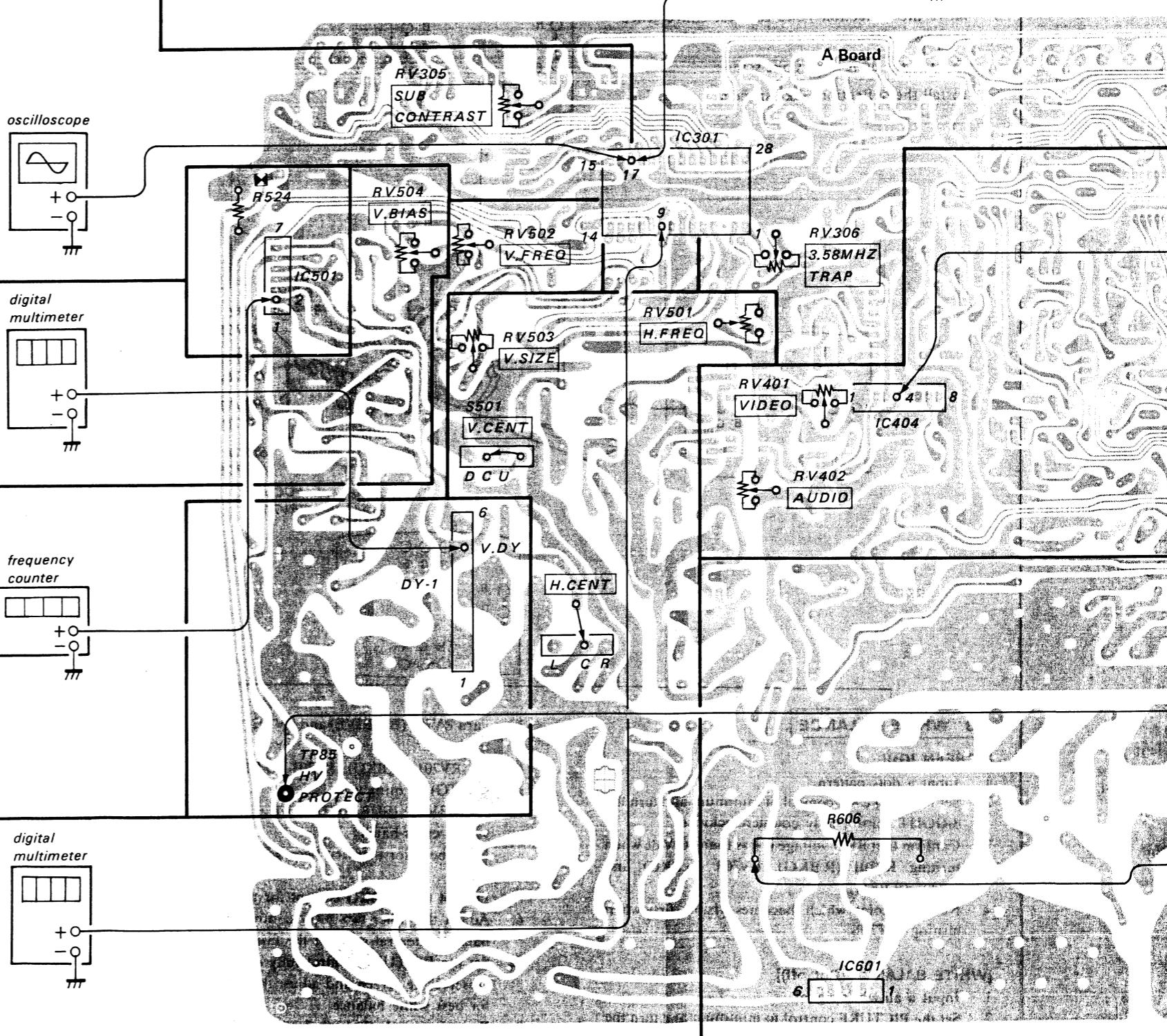
1. No signal input.
2. Connect frequency counter across pin ② of IC501 and ground.
3. Adjust RV502 for  $55 \pm 0.5$  Hz on the frequency counter.

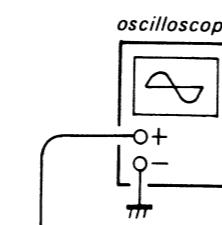
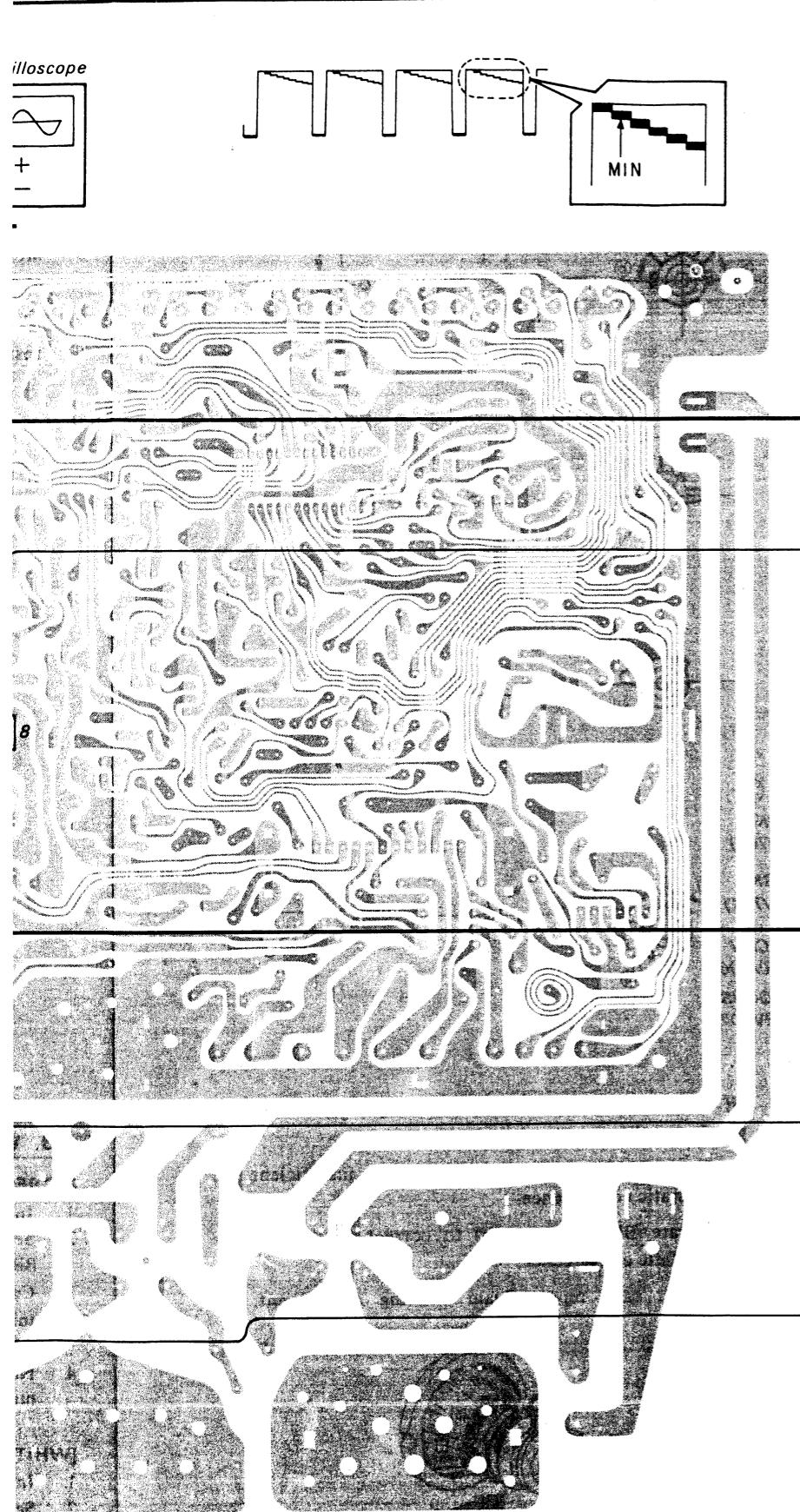
## digital multimeter



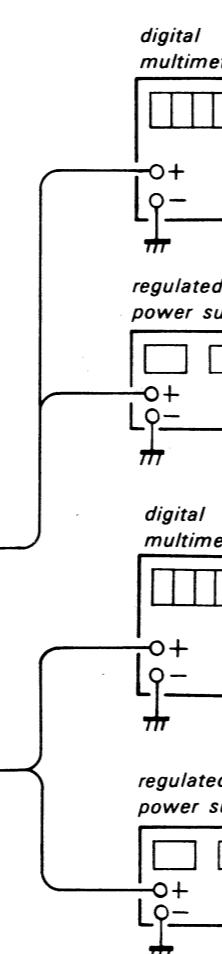
## H.FREQUENCY

- V.CENT SW (S501) ..... center position
  - H.CENT ..... center position
  - V.SIZE (RV503) ..... mechanical center
1. Feed in a monoscope signal.
  2. Adjust RV501 so that voltage on pin ⑨ of IC301 is  $3.2 \pm 0.1$  Vdc.



**AV LEVEL ADJUSTMENT**

1. Connect an oscilloscope to the DET OUT (TP-12).
2. Input a color-bar-signal to RF and VIDEO IN.  
Input signal  
RF: color-bar 87.5% TV modulation  
VIDEO: color-bar 1 Vp-p  $75\Omega$
3. Turn the RF/VIDEO select switch ON or OFF and adjust RV401 so that the signal levels of RF and VIDEO are same.
4. Connect an oscilloscope to the pin ④ of IC404.
5. Input signal to RF and AUDIO IN.  
Input signal  
RF: dot signal. AUDIO 400 Hz (100% modulation)  
AUDIO: 400 Hz  $-5.62$  dBs (0.408 Vrms)
6. Turn the RF/VIDEO select switch ON or OFF and adjust RV402 so that the signal levels of RF and VIDEO are same.

**4-3. SAFETY RELATED ADJUSTMENT****R524 ADJUSTMENT (HOLD DOWN)**

When replacing the following components (marked with  on the schematic diagram), perform the adjustment as follows.

R521, R522, R523, R524, R530, R534, C307, C524, D502, D512, T503, IC301

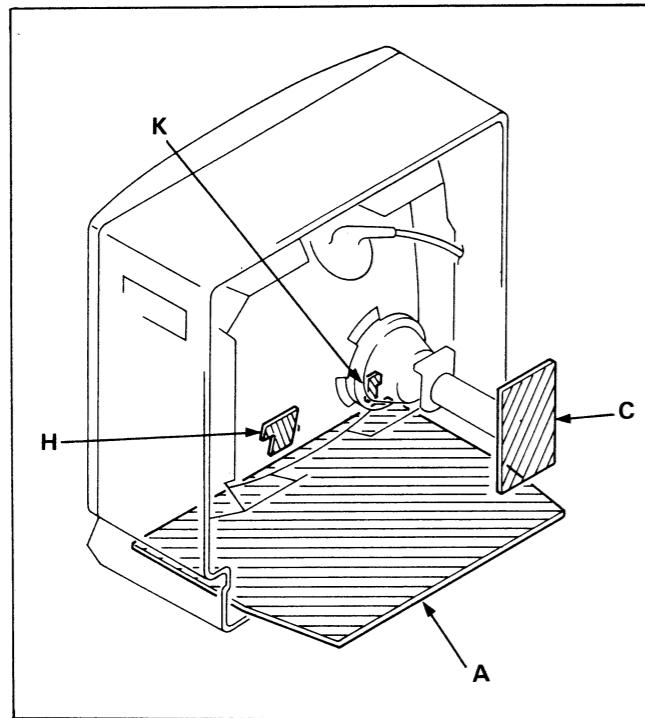
1. Receive the dot signal  
PICTURE VR..... MIN  
BRIGHT VR..... MIN
2. +B voltage check  
Confirm that the +B voltage (135V Line) is less than 136.2 Vdc during input of  $130 \pm 2.0$  Vac.
3. Protector voltage check  
Confirm that a voltage of  $20.0 \pm 1.3$  Vdc appears between TP85 and ground during input of  $120 \pm 1.0$  Vac.
4. Operation check  
Confirm that the hold-down circuit operates (the raster diss appears) by adding  $22.75 \pm 0.05$  Vdc between TP85 and ground.
5. Receive the dot signal.
6. Short IC601 pins ③ and ④.
7. Input of  $120 \pm 1.0$  Vac.
8. Error operation check.  
Confirm that, applying  $139 \pm 0.5$  Vdc to +B voltage (135V Line), the hold-down circuit does not operate when changing the channel.

**CHECK AFTER IC601 REPLACEMENT**

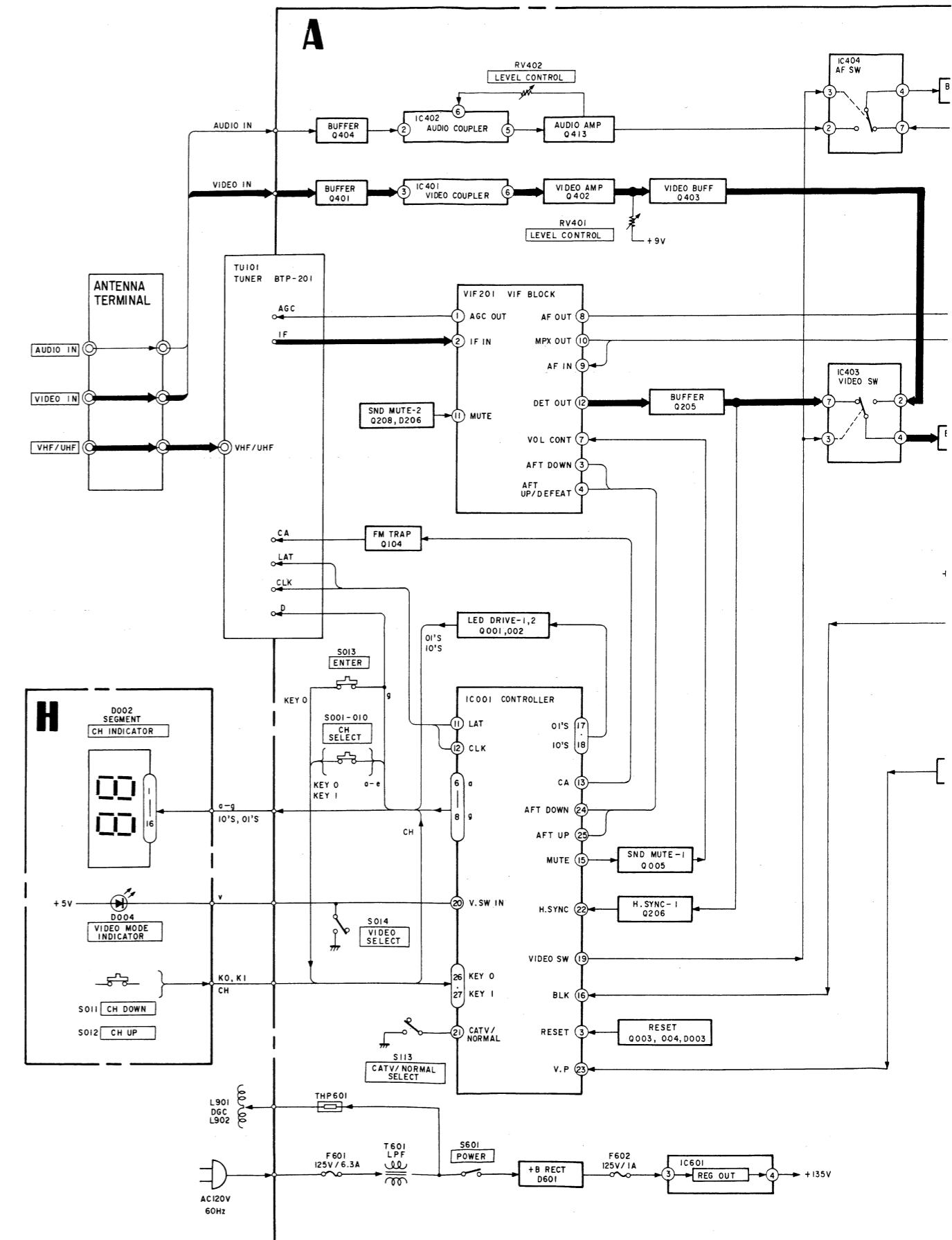
1. Supply  $130 \pm 2.0$  Vac to with variable auto-transformer.
2. Receive the dot signal.
3. PICTURE VR..... MIN  
BRIGHT VR..... MIN
4. Confirm that the +B voltage (135V Line) is less than 136.2 Vdc.
5. If step 4 is not satisfied, replace IC601 in A board and repeat above steps.

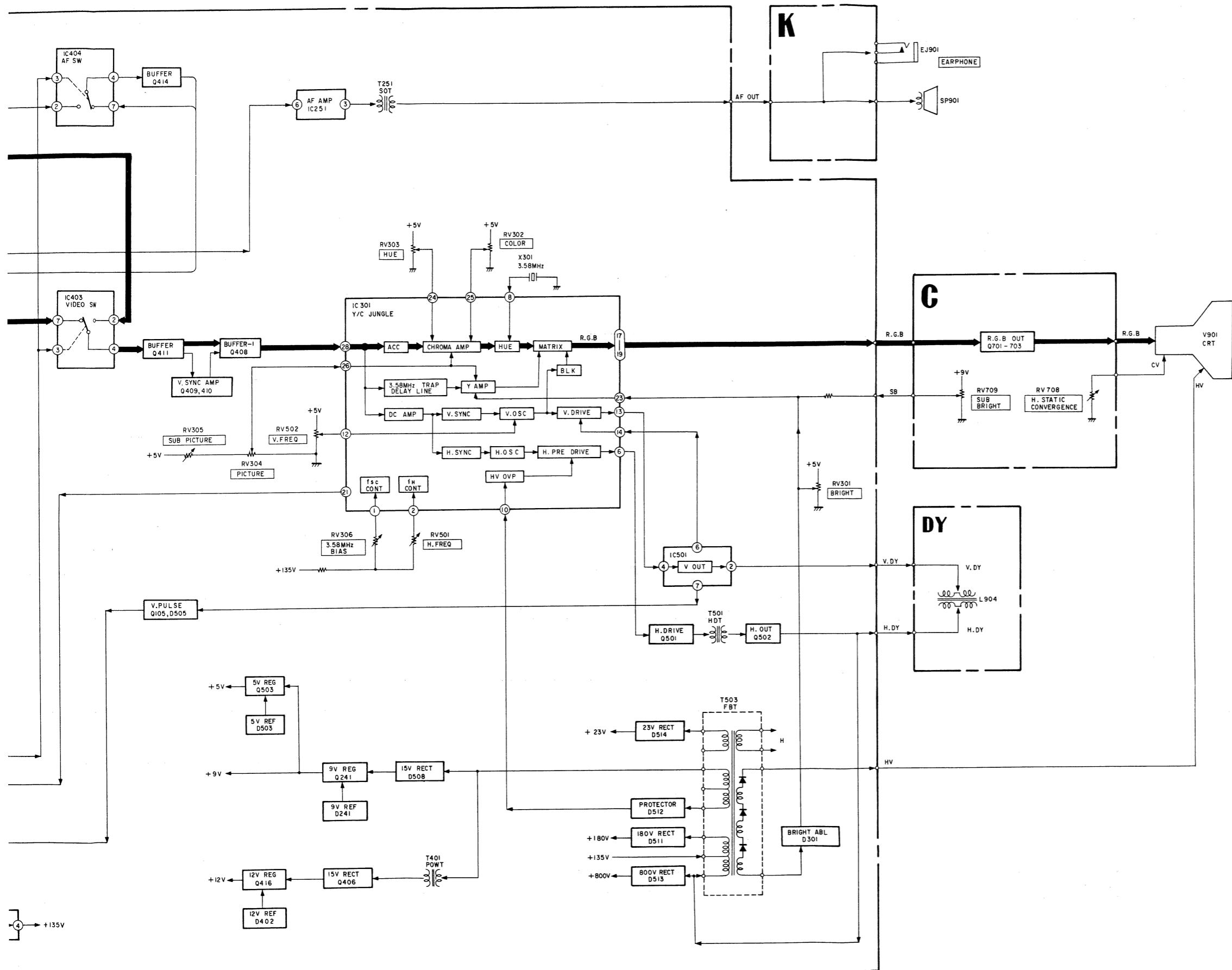
## SECTION 5 DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. BLOCK DIAGRAM





## 5-3. SCHEMATIC DIAGRAMS

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

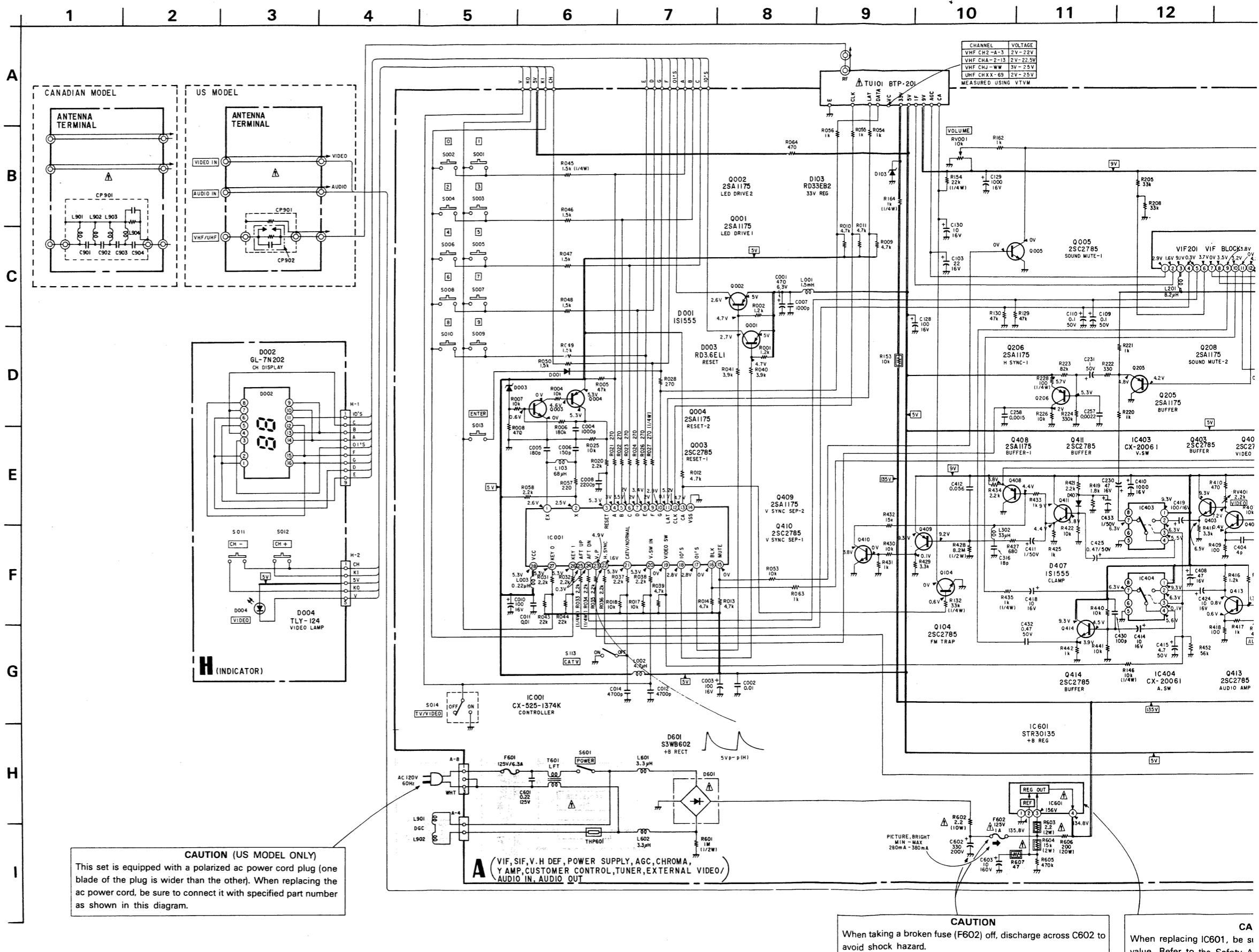
## Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{pF}$  50 pV or less are not indicated except for electrolytics.
- All resistors are in ohms,  $1/8\text{ W}$  unless otherwise noted. K:  $1000\ \Omega$ , M:  $1000\text{ k}\Omega$ .
- : nonflammable resistor.
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R524 adjustment on page 15.)
- When replacing the part in below table, be sure to perform the related adjustment.

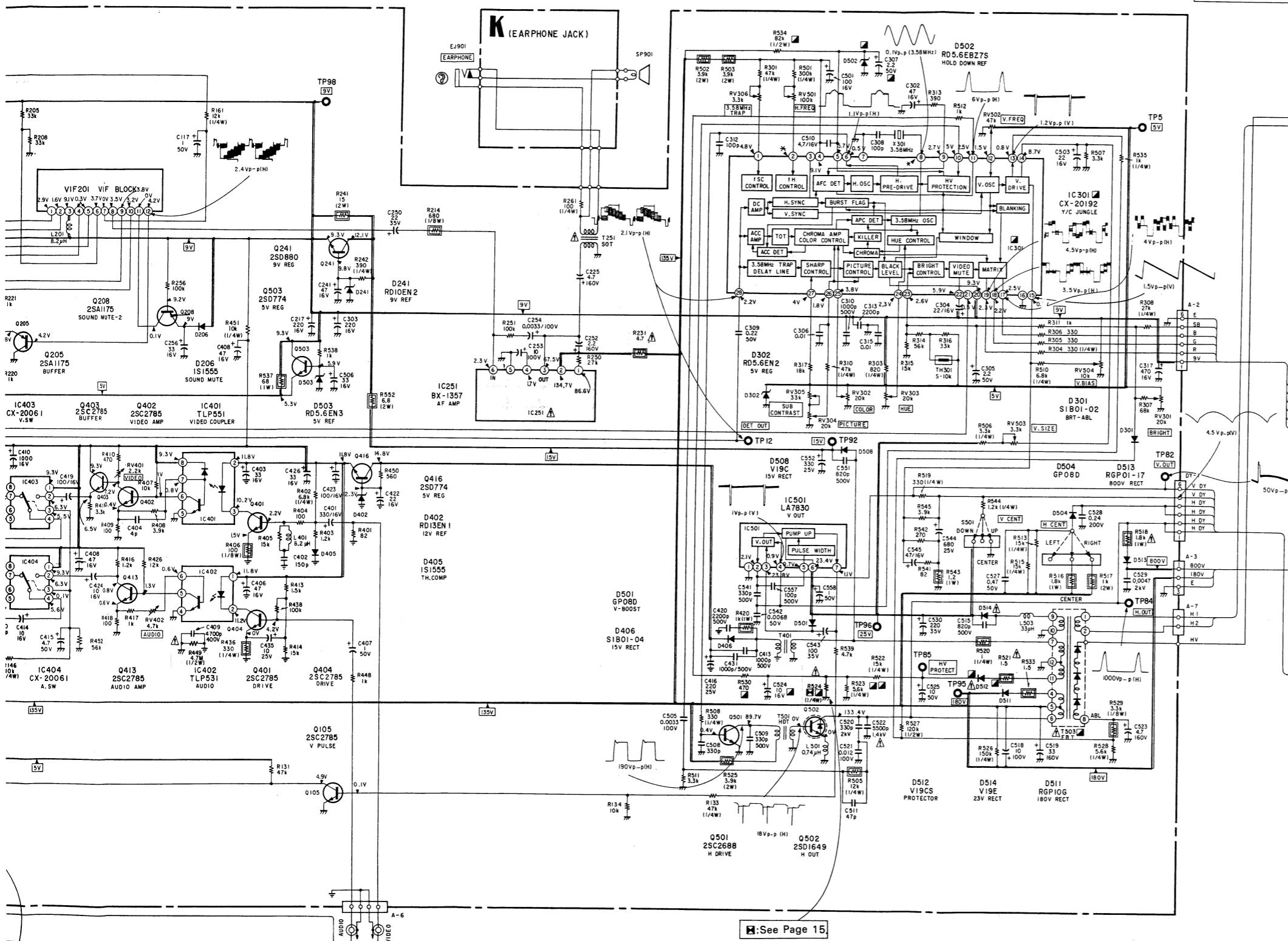
Part replaced ()	Adjustment ()
C307, C524, D502, D512, IC301, R521, R522, R523, R524, R530, R534, T503	R524 adjustment

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a  $10\text{ M}\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- : B+ bus.
- : B- bus.
- Voltage variations may be noted due to normal production tolerances.
- : adjustment for repair.
- : Can not be measured.

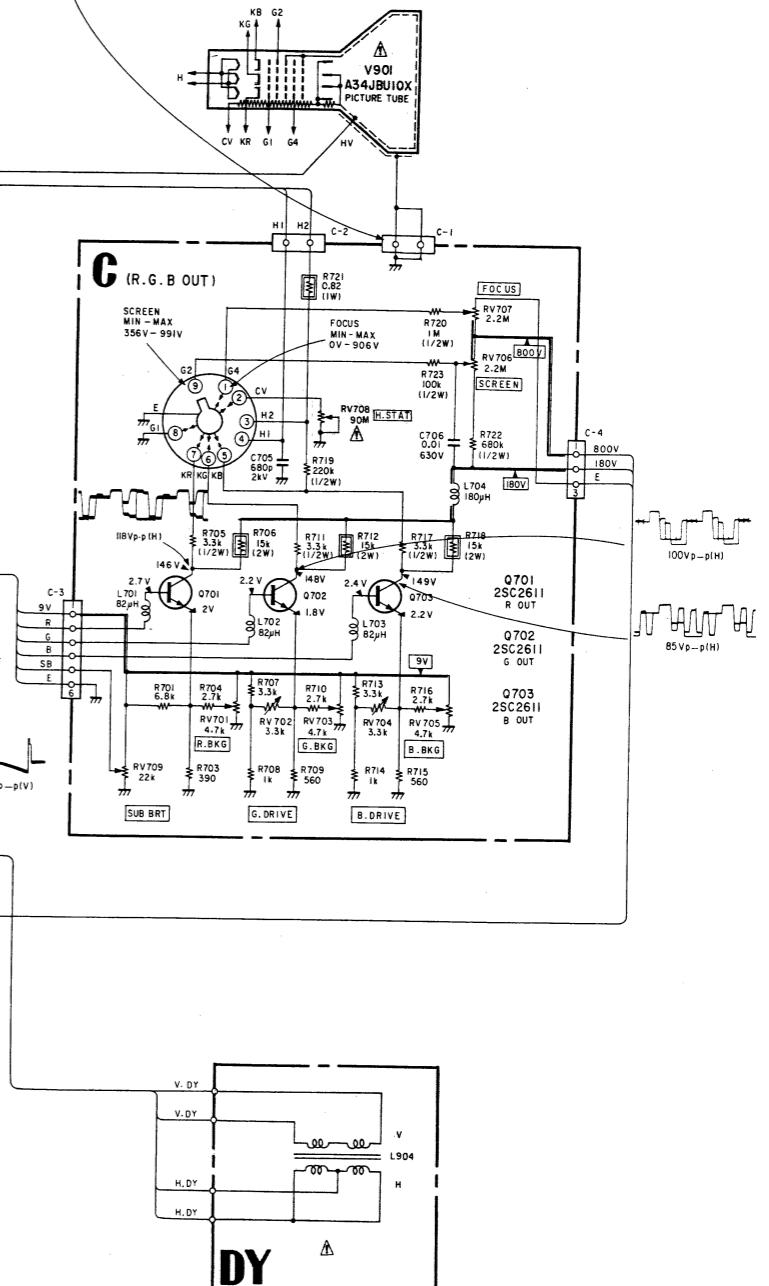
**CAUTION (US MODEL ONLY)**  
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.



12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26



**CAUTION**  
Be sure to connect the connector C-1 for safety.





C [RGB OUT]

H [INDICATOR]

K [EARPHONE]

8

9

10

11

12

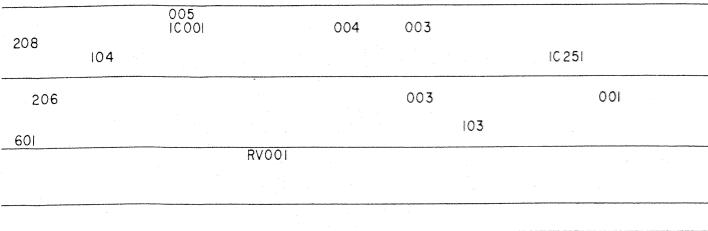
13

14

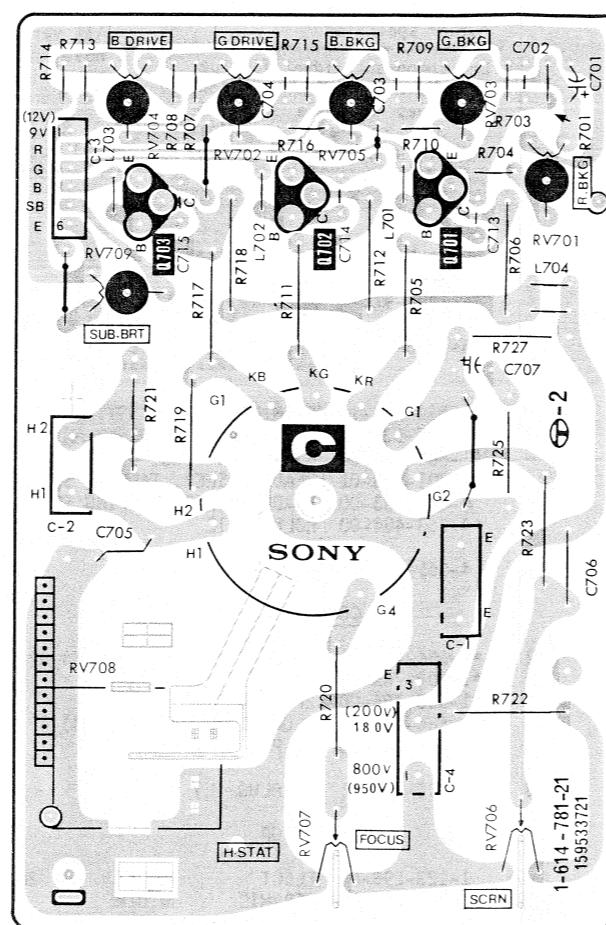
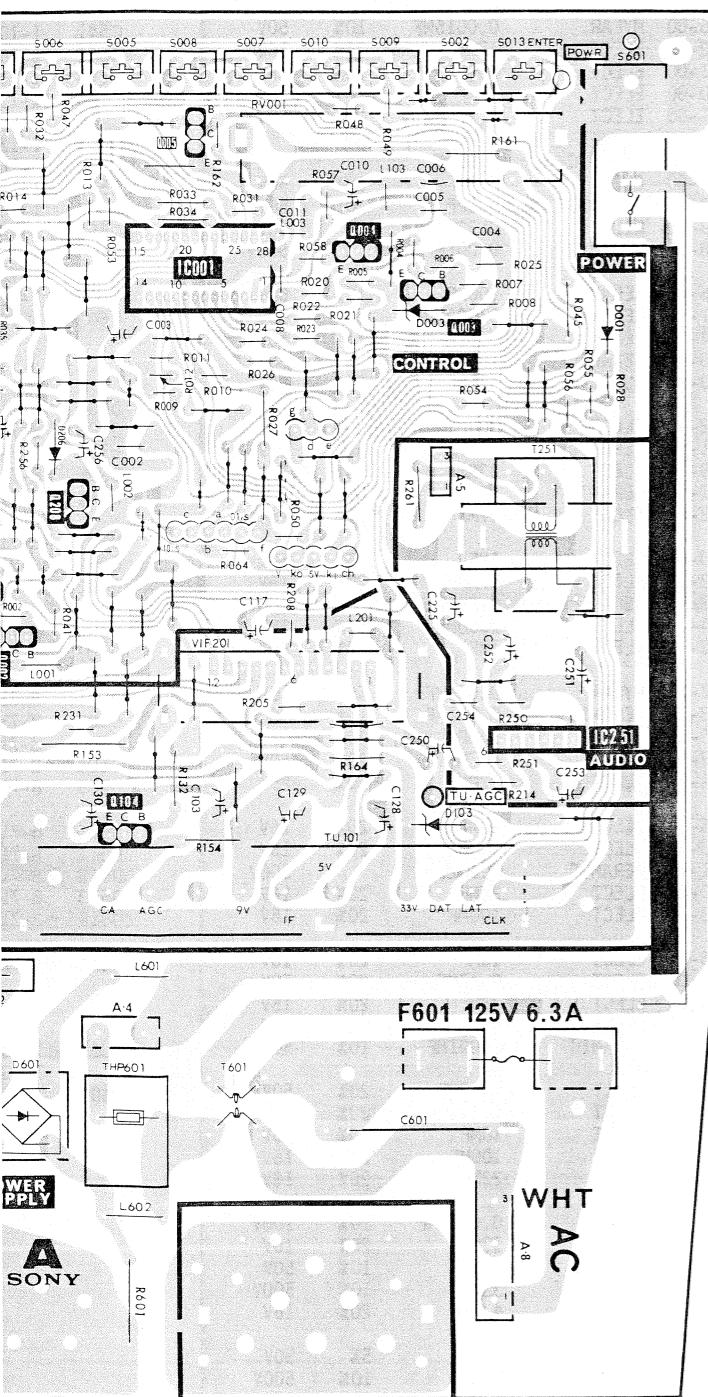
15

16

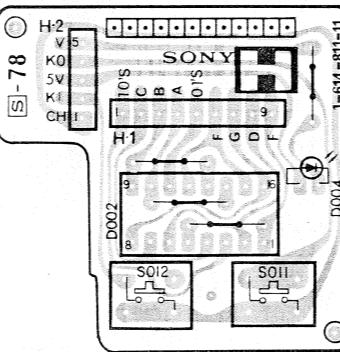
17



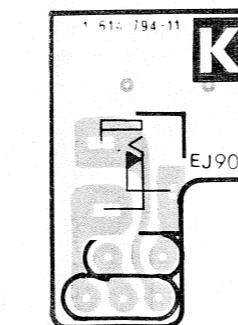
## — C Board —



## — H Board —



## — K Board —



## 5-5. SEMICONDUCTORS

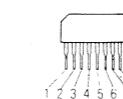
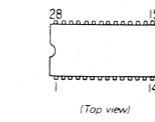
BX-1357

CX20061

2SA933S  
2SC1740S

2SD774

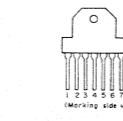
GL-7N202

CX20192  
CX525-1374K2SC1826  
2SD1406  
2SD313HP  
2SD88010E2  
ES1F  
GP08D  
RGPO1-17  
RGPO1G

LA7830

2SC2230A  
2SC2610BK  
2SD789

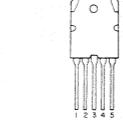
S3WB60Z



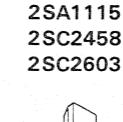
STR30135

2SC2456  
2SC2611  
2SC2688

TLP531

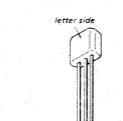
2SA1048  
2SA1115  
2SC2458  
2SC2603

2SD1135

IS1555  
EQA02-06B  
EQA02-12A5  
HZ12A3  
HZ33EB2  
HZ6A3  
HZ6BZ  
RD10EN2  
RD13EN1  
RD3.6EL1  
RD33EB2  
RD5.6E-N3  
RD5.6EBZ7S  
RD5.6EN22SA1175  
2SC2785

2SD1649

TLP551

1SS119  
1SS133  
1SS148SIB01-02  
SIB01-04V06C  
V19C  
V19CS  
V19E

TLY124

anode  
cathodeV06C  
V19C  
V19CS  
V19E

## SECTION 6 EXPLODED VIEWS

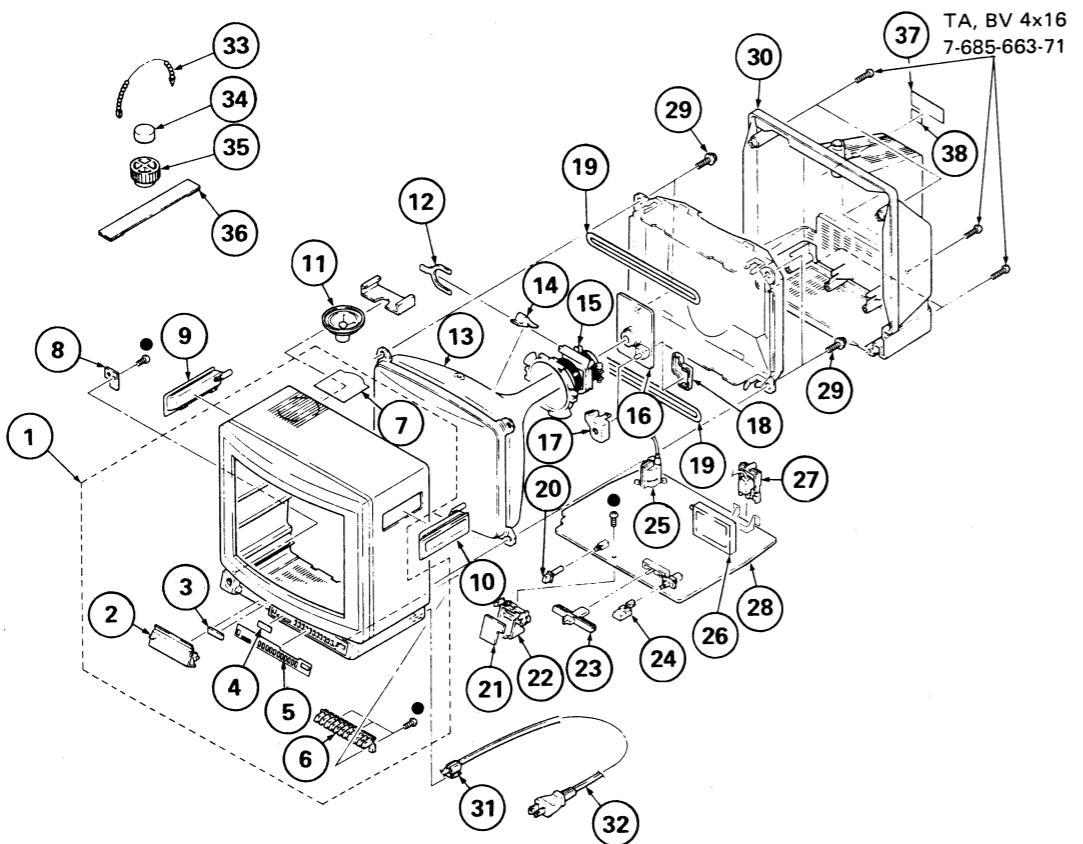
**NOTE:**  
 • Items with no part number and no description are not stocked because they are seldom required for routine service.  
 • The construction parts of an assembled part are indicated with a callout number in the remark column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

● TA, BV 3x12 7-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4374-912-1	BEZEL ASSY (USA ONLY)	2-7	20	4-374-941-01	BUTTON, SELECTION (USA ONLY)	
	X-4374-919-1	BEZEL ASSY (CND ONLY)	2-7		4-374-941-11	BUTTON, SELECTION (CND ONLY)	
2	X-4374-910-1	DOOR ASSY, CONTROL (USA ONLY)		21	*1-614-811-11	H BOARD	
	X-4374-918-1	DOOR ASSY, CONTROL (CND ONLY)		22	*4-374-945-01	HOLDER, H PC BOARD	
3	4-840-002-00	EMBLEM, SONY		23	4-374-914-11	KNOB, CONTROL	
4	4-374-938-01	WINDOW, INDICATION		24	4-374-903-31	BUTTON, POWER (USA ONLY)	
5	4-374-942-01	WINDOW, CHANNEL		25	*4-374-903-21	BUTTON, POWER (CND ONLY)	
6	4-374-943-01	BUTTON, TUNING (USA ONLY)		26	*1-439-314-21	TRANSFORMER ASSY, FLYBACK	
7	4-374-943-11	BUTTON, TUNING (CND ONLY)		27	*1-463-603-11	TUNER, ET (BTP-201)	
8	*4-374-962-01	NET, SPEAKER		28	*1-536-923-11	TERMINAL BOARD ASSY, ANTENNA (USA ONLY)	
9	*1-614-794-11	K BOARD			*1-536-939-11	TERMINAL BOARD ASSY, ANTENNA (CND ONLY)	
10	4-374-921-11	HANDLE (LEFT) (USA ONLY)		29	*A-1295-973-A	A BOARD, COMPLETE (USA ONLY)	
	4-374-921-41	HANDLE (LEFT) (CND ONLY)		30	*A-1296-008-A	A BOARD, COMPLETE (CND ONLY)	
11	4-374-920-11	HANDLE (RIGHT) (USA ONLY)		31	4-365-808-00	SCREW (5), TAPPING	
	4-374-920-41	HANDLE (RIGHT) (CND ONLY)		32	4-374-948-01	COVER, BACK (USA ONLY)	
12	1-503-344-11	SPEAKER		33	4-374-948-61	COVER, BACK (CND ONLY)	
13	1-452-277-12	MAGNET, BMC		34	*4-022-115-01	HOLDER, AC CORD	
14	*1-8735-553-05	CRT (A34JB10X)		35	*1-551-603-11	CORD, POWER	
15	3-703-961-01	SPACER, DY		36	4-308-870-00	CLIP, LEAD WIRE	
16	*1-451-234-22	DEFLECTION YOKE (SY-125A)		37	1-452-032-00	MAGNET, DISK; 10MM Ø	
17	*A-1330-601-A	C BOARD, COMPLETE		38	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
18	*4-374-912-01	COVER (MAIN), CV VOL		39	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
19	*4-374-913-01	COVER (REAR LID), CV VOL		40	3-703-228-00	LABEL, CAUTION (CND ONLY)	
	*1-426-146-22	COIL, DEGAUSSING (USA ONLY)		41	3-703-282-00	LABEL, DOC (B) (CND ONLY)	
	*1-426-146-31	COIL, DEMAGNETIZATION (CND ONLY)					

## SECTION 7

### ELECTRICAL PARTS LIST

A

Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1295-973-A	A BOARD, COMPLETE (USA ONLY)		C258	1-106-176-00	MYLAR	0.0015MF 10% 50V
	*A-1296-008-A	A BOARD, COMPLETE (CND ONLY)		C302	1-123-332-00	ELECT	47MF 20% 16V
	*1-536-923-11	TERMINAL BOARD ASSY, ANTENNA (USA ONLY)		C303	1-123-321-00	ELECT	220MF 20% 16V
	*1-536-939-11	TERMINAL BOARD ASSY, ANTENNA (CND ONLY)		C304	1-123-330-00	ELECT	22MF 20% 16V
	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		C305	1-123-381-00	ELECT	2.2MF 20% 50V
	3-701-833-01	HEAD, WASHER, TAPPING SCREW					
	4-303-483-00	HEAD, WASHER, TAPPING SCREW					
	*4-363-404-00	HOLDER, IC					
	4-365-216-00	SPACER, MICA					
		CONNECTOR					
A2	*1-564-442-11	PLUG, CONNECTOR (2.5MM) 6P					
A3	*1-508-765-00	3P PLUG (M)					
A4	*1-508-786-00	2P PLUG (M)					
A6	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P					
A7	*1-508-786-00	2P PLUG (M)					
A8	*1-506-349-21	3P PLUG (L)					
		CAPACITOR					
C001	1-123-298-00	ELECT	470MF 20% 6.3V	C407	1-123-380-00	ELECT	1MF 20% 50V
C002	1-101-004-00	CERAMIC	0.01MF 50V	C408	1-123-332-00	ELECT	47MF 20% 16V
C003	1-123-333-00	ELECT	100MF 20% 16V	C409	*1-161-953-51	CERAMIC	0.0047MF 20% 400V
C004	1-102-074-00	CERAMIC	0.001MF 10% 50V	C410	1-123-324-00	ELECT	1000MF 20% 16V
C005	1-102-976-00	CERAMIC	180PF 5% 50V	C411	1-123-380-00	ELECT	1MF 20% 50V
				C412	1-108-597-00	MYLAR	0.056MF 5% 50V
C006	1-101-361-00	CERAMIC	150PF 5% 50V	C413	1-162-318-11	CERAMIC	0.001MF 10% 500V
C007	1-102-074-00	CERAMIC	0.001MF 10% 50V	C414	1-123-356-00	ELECT	10MF 20% 16V
C008	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C415	1-123-369-00	ELECT	4.7MF 20% 50V
C010	1-123-333-00	ELECT	100MF 20% 16V	C416	1-123-334-00	ELECT	220MF 20% 25V
C011	1-101-004-00	CERAMIC	0.01MF 50V	C418	1-123-356-00	ELECT	10MF 20% 16V
				C419	1-123-333-00	ELECT	100MF 20% 16V
C012	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C420	1-101-821-00	CERAMIC	0.0022MF 20% 500V
C014	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C422	1-123-330-00	ELECT	22MF 20% 16V
C103	1-123-330-00	ELECT	22MF 20% 16V	C423	1-123-333-00	ELECT	100MF 20% 16V
C109	1-123-586-00	ELECT	0.1MF 20% 50V				
C110	1-123-586-00	ELECT	0.1MF 20% 50V				
				C424	1-123-356-00	ELECT	10MF 20% 16V
C111	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C425	1-123-379-00	ELECT	0.47MF 20% 50V
C117	1-123-380-00	ELECT	1MF 20% 50V	C426	1-123-318-00	ELECT	33MF 20% 16V
C128	1-123-333-00	ELECT	100MF 20% 16V	C430	1-102-106-00	CERAMIC	100PF 10% 50V
C129	1-123-324-00	ELECT	1000MF 20% 16V	C431	1-162-318-11	CERAMIC	0.001MF 10% 500V
C130	1-123-356-00	ELECT	10MF 20% 16V	C432	1-124-655-11	ELECT	0.47MF 20% 50V
C217	1-123-321-00	ELECT	220MF 20% 16V	C433	1-123-380-00	ELECT	1MF 20% 50V
C225	1-123-932-00	ELECT	4.7MF 20% 160V	C435	1-123-356-00	ELECT	10MF 20% 25V
C230	1-123-332-00	ELECT	47MF 20% 16V	C501	1-123-333-00	ELECT	100MF 20% 16V
C231	1-123-380-00	ELECT	1MF 20% 50V	C503	1-123-330-00	ELECT	22MF 20% 16V
C241	1-123-332-00	ELECT	47MF 20% 16V	C505	1-106-184-00	MYLAR	0.0033MF 10% 100V
				C506	1-123-318-00	ELECT	33MF 20% 16V
C250	1-123-357-00	ELECT	22MF 20% 35V	C508	1-102-112-00	CERAMIC	330PF 10% 50V
C252							

A

## ELECTRICAL PARTS LIST

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS COILS
- MF :  $\mu$ F, PF :  $\mu$ H MMH : mH, UH :  $\mu$ H
- The components identified by **A** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*A-1295-973-A	A BOARD, COMPLETE (USA ONLY)			C258	1-106-176-00	MYLAR	0.0015MF 10% 50V
	*****			C302	1-123-332-00	ELECT	47MF 20% 16V
*A-1296-008-A	A BOARD, COMPLETE (CND ONLY)			C303	1-123-321-00	ELECT	220MF 20% 16V
	*****			C304	1-123-330-00	ELECT	22MF 20% 16V
	△1-536-923-11 TERMINAL BOARD ASSY, ANTENNA (USA ONLY)			C305	1-123-381-00	ELECT	2.2MF 20% 50V
	△1-536-939-11 TERMINAL BOARD ASSY, ANTENNA (CND ONLY)			C306	1-101-004-00	CERAMIC	0.01MF 50V
*1-564-038-00 CONNECTOR PLUG, DY (MINI) 6P				C307	1-123-381-00	ELECT	2.2MF 20% 50V
3-701-833-01 HEAD, WASHER, TAPPING SCREW				C308	1-102-973-00	CERAMIC	100PF 10% 50V
4-303-483-00 HEAD, WASHER, TAPPING SCREW				C309	1-136-169-00	FILM	0.22MF 5% 50V
*4-363-404-00 HOLDER, IC				C310	1-102-038-00	CERAMIC	0.001MF 500V
4-365-216-00 SPACER, MICA				C312	1-102-106-00	CERAMIC	100PF 10% 50V
	CONNECTOR			C313	1-102-121-00	CERAMIC	0.0022MF 10% 50V
				C315	1-101-004-00	CERAMIC	0.01MF 50V
				C316	1-102-953-00	CERAMIC	18PF 5% 50V
				C317	1-123-323-00	ELECT	470MF 20% 16V
A2 *1-564-442-11 PLUG, CONNECTOR (2.5MM) 6P							DIODE
A3 *1-508-765-00 3P PLUG (M)				D001	8-719-911-19	DIODE 1SS119	
A4 *1-508-786-00 2P PLUG (M)				D003	8-719-101-38	DIODE RD3.6E-L1	
A6 *1-564-440-11 PLUG, CONNECTOR (2.5MM) 4P				D103	8-719-101-04	DIODE RD33E-B2	
A7 *1-508-786-00 2P PLUG (M)				D206	8-719-911-19	DIODE 1SS119	
A8 *1-506-349-21 3P PLUG (L)				D241	8-719-102-91	DIODE RD10E-N2	
	CAPACITOR			D301	8-719-200-02	DIODE 10E2	
				D302	8-719-102-71	DIODE RD5.6E-N2	
C001 1-123-298-00 ELECT	470MF 20% 6.3V			D402	8-719-102-99	DIODE RD13E-N1	
C002 1-101-004-00 CERAMIC	0.01MF 50V			D405	8-719-911-19	DIODE 1SS119	
C003 1-123-333-00 ELECT	100MF 20% 16V			D406	8-719-928-04	DIODE ERD28-04S	
C004 1-102-074-00 CERAMIC	0.001MF 10% 50V			D407		DIODE 1SS119	
C005 1-102-976-00 CERAMIC	180PF 5% 50V			D501	8-719-911-55	DIODE U05G	
C006 1-101-361-00 CERAMIC	150PF 5% 50V			D502	8-719-100-35	DIODE RD5.6E-B2	
C007 1-102-074-00 CERAMIC	0.001MF 10% 50V			D503	8-719-102-72	DIODE RD5.6E-N3	
C008 1-102-121-00 CERAMIC	0.0022MF 10% 50V			D504	8-719-911-55	DIODE U05G	
C010 1-123-333-00 ELECT	100MF 20% 16V			D505	8-719-911-19	DIODE 1SS119	
C011 1-101-004-00 CERAMIC	0.01MF 50V			D508	8-719-901-93	DIODE V19E	
C012 1-102-125-00 CERAMIC	0.0047MF 10% 50V			D511	8-719-924-06	DIODE ERC24-06S	
C014 1-102-125-00 CERAMIC	0.0047MF 10% 50V			D512	△8-719-901-94	DIODE V19CS	
C103 1-123-330-00 ELECT	22MF 20% 16V			D513	8-719-300-65	DIODE ES1F	
C109 1-123-586-00 ELECT	0.1MF 20% 50V			D514	△8-719-901-93	DIODE V19E	
C110 1-123-586-00 ELECT	0.1MF 20% 50V			D601	△8-719-503-06	DIODE S3WB60Z	
C111 1-102-125-00 CERAMIC	0.0047MF 10% 50V					FUSE	
C117 1-123-380-00 ELECT	1MF 20% 50V			F601	△1-532-509-11	FUSE, GLASS TUBE 6.3A/125V	
C128 1-123-333-00 ELECT	100MF 20% 16V				1-533-127-00	FUSE CLIP; F601	
C129 1-123-324-00 ELECT	1000MF 20% 16V			F602	△1-532-536-11	FUSE, GLASS-TUBE 1A/125V	
C130 1-123-356-00 ELECT	10MF 20% 16V				*1-533-146-00	HOLDER, FUSE; F602	
C217 1-123-321-00 ELECT	220MF 20% 16V						
C225 1-123-932-00 ELECT	4.7MF 20% 160V						
C230 1-123-332-00 ELECT	47MF 20% 16V						
C231 1-123-380-00 ELECT	1MF 20% 50V						
C241 1-123-332-00 ELECT	47MF 20% 16V						
C250 1-123-357-00 ELECT	22MF 20% 35V						
C252 1-123-930-00 ELECT	2.2MF 20% 160V						
C253 1-123-384-00 ELECT	10MF 20% 100V						
C254 1-106-184-00 MYLAR	0.0033MF 10% 100V						
C256 1-123-318-00 ELECT	33MF 20% 16V			C511	1-161-267-00	CERAMIC	47PF 5% 50V
C257 1-102-121-00 CERAMIC	0.0022MF 10% 50V			C515	1-102-212-00	CERAMIC	820PF 10% 500V
				C518	1-123-384-00	ELECT	10MF 20% 100V

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C519	1-123-024-00	ELECT	33MF 10% 160V				IC
C520	△1-162-115-51	CERAMIC	330PF 10% 2KV	IC001	8-759-914-09	IC CX525-1374K	
C521	1-106-198-00	MYLAR	0.012MF 10% 100V	IC251	△8-741-135-70	IC BX1357	
C522	△1-136-063-11	FILM	0.0055MF 3% 1.4KV	IC301	8-752-019-20	IC CX20192	
C523	1-123-932-00	ELECT	4.7MF 20% 160V	IC401	8-719-800-43	DIODE TLP551	
C524	1-123-356-00	ELECT	10MF 20% 16V	IC402	8-719-800-83	DIODE TLP531-AUDIO	
C525	1-123-356-00	ELECT	10MF 20% 50V	IC403	8-752-006-10	IC CX20061	
C527	1-136-173-00	FILM	0.47MF 5% 50V	IC404	8-752-006-10	IC CX20061	
C528	1-136-136-00	FILM	0.24MF 5% 200V	IC501	8-759-801-98	IC LA7830	
C529	1-102-223-00	CERAMIC	0.0047MF 10% 2KV	IC601	△8-749-901-35	IC STR30135	
C530	1-123-346-00	ELECT	220MF 20% 35V			COIL	
C541	1-102-030-00	CERAMIC	330PF 10% 500V				
C542	1-108-835-00	MYLAR	0.0068MF 10% 50V	L001	1-407-494-00	MICRO INDUCTOR 1.5MMH	
C543	1-123-345-00	ELECT	100MF 20% 35V	L002	1-408-438-11	MICRO INDUCTOR 4.7UH	
C544	1-124-117-00	ELECT	680MF 10% 25V	L003	1-408-877-00	MICRO INDUCTOR 0.22UH	
C545	1-123-332-00	ELECT	47MF 20% 16V	L103	1-408-452-31	MICRO INDUCTOR 68UH	
C551	1-102-212-00	CERAMIC	820PF 10% 500V	L201	1-408-441-31	MICRO INDUCTOR 8.2UH	
C552	1-123-335-00	ELECT	330MF 20% 25V	L302	1-408-415-00	MICRO INDUCTOR 33UH	
C557	1-101-810-00	CERAMIC	100PF 5% 500V	L401	1-408-441-31	MICRO INDUCTOR 8.2UH	
C558	1-123-380-00	ELECT	1MF 20% 50V	L501	1-407-365-00	COIL, CHO	

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
<u>RESISTOR</u>							
R001	1-247-833-00	CARBON	1.2K 5% 1/6W	R129	1-247-871-00	CARBON	47K 5% 1/6W
R002	1-247-833-00	CARBON	1.2K 5% 1/6W	R130	1-247-871-00	CARBON	47K 5% 1/6W
R004	1-247-855-00	CARBON	10K 5% 1/6W	R131	1-247-871-00	CARBON	47K 5% 1/6W
R005	1-247-871-00	CARBON	47K 5% 1/6W	R132	1-247-167-00	CARBON	33K 5% 1/4W
R006	1-247-885-00	CARBON	180K 5% 1/6W	R133	1-247-171-00	CARBON	47K 5% 1/4W
R007	1-247-855-00	CARBON	10K 5% 1/6W	R134	1-247-855-00	CARBON	10K 5% 1/6W
R008	1-247-823-00	CARBON	470 5% 1/6W	R146	1-247-155-00	CARBON	10K 5% 1/4W
R009	1-247-847-00	CARBON	4.7K 5% 1/6W	R153	1-215-898-11	METAL OXIDE	10K 5% 2W F
R010	1-247-847-00	CARBON	4.7K 5% 1/6W	R154	1-247-163-00	CARBON	22K 5% 1/4W
R011	1-247-847-00	CARBON	4.7K 5% 1/6W	R161	1-249-459-11	CARBON	12K 5% 1/4W
R012	1-247-847-00	CARBON	4.7K 5% 1/6W	R162	1-247-831-00	CARBON	1K 5% 1/6W
R013	1-247-847-00	CARBON	4.7K 5% 1/6W	R164	1-247-131-00	CARBON	1K 5% 1/4W
R014	1-247-847-00	CARBON	4.7K 5% 1/6W	R205	1-215-457-00	METAL	33K 1% 1/6W
R017	1-247-855-00	CARBON	10K 5% 1/6W	R208	1-215-457-00	METAL	33K 1% 1/6W
R018	1-247-855-00	CARBON	10K 5% 1/6W	R214	1-249-415-11	CARBON	680 5% 1/8W F
R020	1-247-839-00	CARBON	2.2K 5% 1/6W	R220	1-247-831-00	CARBON	1K 5% 1/6W
R021	1-247-817-00	CARBON	270 5% 1/6W	R221	1-247-831-00	CARBON	1K 5% 1/6W
R022	1-247-817-00	CARBON	270 5% 1/6W	R222	1-247-819-00	CARBON	330 5% 1/6W
R023	1-247-817-00	CARBON	270 5% 1/6W	R223	1-247-877-00	CARBON	82K 5% 1/6W
R024	1-247-817-00	CARBON	270 5% 1/6W	R224	1-247-891-00	CARBON	330K 5% 1/6W
R025	1-247-855-00	CARBON	10K 5% 1/6W	R226	1-247-855-00	CARBON	10K 5% 1/6W
R026	1-247-817-00	CARBON	270 5% 1/6W	R228	1-247-107-00	CARBON	100 5% 1/4W
R027	1-247-117-00	CARBON	270 5% 1/4W	R231	▲1-249-389-51	CARBON	4.7 5% 1/8W F
R028	1-247-817-00	CARBON	270 5% 1/6W	R241	1-215-881-11	METAL OXIDE	15 5% 2W F
R031	1-247-839-00	CARBON	2.2K 5% 1/6W	R242	1-246-463-00	CARBON	390 5% 1/4W
R032	1-247-839-00	CARBON	2.2K 5% 1/6W	R250	1-247-865-00	CARBON	27K 5% 1/6W
R033	1-247-717-11	CARBON	2.2K 5% 1/4W	R251	1-247-879-00	CARBON	100K 5% 1/6W
R034	1-247-717-11	CARBON	2.2K 5% 1/4W	R256	1-247-879-00	CARBON	100K 5% 1/6W
R035	1-247-839-00	CARBON	2.2K 5% 1/6W	R261	1-202-359-11	SOLID	100 5% 1/4W
R036	1-247-839-00	CARBON	2.2K 5% 1/6W	R301	1-214-769-00	METAL	47K 1% 1/4W
R037	1-247-839-00	CARBON	2.2K 5% 1/6W	R303	1-247-129-00	CARBON	820 5% 1/4W
R038	1-247-839-00	CARBON	2.2K 5% 1/6W	R304	1-247-119-00	CARBON	330 5% 1/4W
R039	1-247-847-00	CARBON	4.7K 5% 1/6W	R305	1-247-819-00	CARBON	330 5% 1/6W
R040	1-247-845-00	CARBON	3.9K 5% 1/6W	R306	1-247-819-00	CARBON	330 5% 1/6W
R041	1-247-845-00	CARBON	3.9K 5% 1/6W	R307	1-247-875-00	CARBON	68K 5% 1/6W
R043	1-247-863-00	CARBON	22K 5% 1/6W	R308	1-246-507-00	CARBON	27K 5% 1/4W
R044	1-247-863-00	CARBON	22K 5% 1/6W	R310	1-247-171-00	CARBON	47K 5% 1/4W
R045	1-247-135-00	CARBON	1.5K 5% 1/4W	R311	1-247-831-00	CARBON	1K 5% 1/6W
R046	1-247-835-00	CARBON	1.5K 5% 1/6W	R313	1-247-821-00	CARBON	390 5% 1/6W
R047	1-247-835-00	CARBON	1.5K 5% 1/6W	R314	1-247-873-00	CARBON	56K 5% 1/6W
R048	1-247-835-00	CARBON	1.5K 5% 1/6W	R315	1-247-859-00	CARBON	15K 5% 1/6W
R049	1-247-835-00	CARBON	1.5K 5% 1/6W	R316	1-247-867-00	CARBON	33K 5% 1/6W
R050	1-247-835-00	CARBON	1.5K 5% 1/6W	R317	1-247-861-00	CARBON	18K 5% 1/6W
R053	1-247-855-00	CARBON	10K 5% 1/6W	R401	1-247-805-00	CARBON	82 5% 1/6W
R054	1-247-831-00	CARBON	1K 5% 1/6W	R402	1-247-151-00	CARBON	6.8K 5% 1/4W
R055	1-247-831-00	CARBON	1K 5% 1/6W	R403	1-247-833-00	CARBON	1.2K 5% 1/6W
R056	1-247-831-00	CARBON	1K 5% 1/6W	R404	1-247-807-00	CARBON	100 5% 1/6W
R057	1-247-815-00	CARBON	220 5% 1/6W	R405	1-247-859-00	CARBON	15K 5% 1/6W
R058	1-247-839-00	CARBON	2.2K 5% 1/6W	R406	1-249-405-11	CARBON	100 5% 1/8W F
R063	1-247-131-00	CARBON	1K 5% 1/4W	R407	1-247-855-00	CARBON	10K 5% 1/6W
R064	1-247-823-00	CARBON	470 5% 1/6W	R408	1-247-845-00	CARBON	3.9K 5% 1/6W
				R409	1-247-807-00	CARBON	100 5% 1/6W
				R410	1-247-823-00	CARBON	470 5% 1/6W

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark		
R411	1-247-843-00	CARBON	3.3K 5% 1/6W	R526	1-246-525-00	CARBON	150K 5% 1/4W		
R413	1-247-835-00	CARBON	1.5K 5% 1/6W	R527	1-214-915-00	METAL	120K 1% 1/2W		
R414	1-247-859-00	CARBON	15K 5% 1/6W	R528	1-247-149-00	CARBON	5.6K 5% 1/4W		
R416	1-247-833-00	CARBON	1.2K 5% 1/6W	R529	1-249-423-11	CARBON	3.3K 5% 1/8W F		
R417	1-247-831-00	CARBON	1K 5% 1/6W	R530	1-247-823-00	CARBON	470 5% 1/6W		
R418	1-247-807-00	CARBON	100 5% 1/6W	R533	▲ 1-249-383-51	CARBON	1.5 5% 1/8W F		
R419	1-247-837-00	CARBON	1.8K 5% 1/6W	R534	1-244-919-00	CARBON	82K 5% 1/2W		
R420	1-215-869-11	METAL OXIDE	1K 5% 1W F	R535	1-247-131-00	CARBON	1K 5% 1/4W		
R421	1-247-839-00	CARBON	2.2K 5% 1/6W	R537	1-215-862-11	METAL OXIDE	68 5% 1W F		
R422	1-247-879-00	CARBON	100K 5% 1/6W	R538	1-247-831-00	CARBON	1K 5% 1/6W		
R425	1-247-831-00	CARBON	1K 5% 1/6W	R539	1-247-847-00	CARBON	4.7K 5% 1/6W		
R426	1-247-857-00	CARBON	12K 5% 1/6W	R541	1-247-805-00	CARBON	82 5% 1/6W		
R427	1-247-827-00	CARBON	680 5% 1/6W	R542	1-247-817-00	CARBON	270 5% 1/6W		
R428	1-202-730-00	SOLID	8.2M 10% 1/2W	R543	1-216-350-11	METAL OXIDE	1.2 5% 1W F		
R429	1-247-843-00	CARBON	3.3K 5% 1/6W	R544	1-247-133-00	CARBON	1.2K 5% 1/4W		
R430	1-247-855-00	CARBON	10K 5% 1/6W	R545	1-247-845-00	CARBON	3.9K 5% 1/6W		
R431	1-247-831-00	CARBON	1K 5% 1/6W	R552	1-216-379-11	METAL OXIDE	6.8 5% 2W F		
R432	1-247-859-00	CARBON	15K 5% 1/6W	R601	▲ 1-202-719-51	SOLID	1M 10% 1/2W		
R433	1-247-831-00	CARBON	1K 5% 1/6W	R602	▲ 1-205-707-12	CEMENTED	2.2 10W		
R434	1-247-839-00	CARBON	2.2K 5% 1/6W	R603	▲ 1-216-373-51	METAL OXIDE	2.2 5% 2W F		
R435	1-247-131-00	CARBON	1K 5% 1/4W	R604	1-215-899-11	METAL OXIDE	15K 5% 2W F		
R436	1-247-706-11	CARBON	330 5% 1/4W F	R605	1-247-895-00	CARBON	470K 5% 1/6W		
R438	1-247-879-00	CARBON	100K 5% 1/6W	R606	▲ 1-205-700-11	CEMENTED	200 5% 20W		
R440	1-247-855-00	CARBON	10K 5% 1/6W	R607	▲ 1-249-401-51	CARBON	47 5% 1/8W F		
R441	1-247-855-00	CARBON	10K 5% 1/6W	<u>VARIABLE RESISTOR</u>					
R442	1-247-831-00	CARBON	1K 5% 1/6W	RV001	1-230-794-11	RES, VAR, SLIDE 10K			
R448	1-247-831-00	CARBON	1K 5% 1/6W	RV301	1-230-781-11	RES, VAR, CARBON 20KX4			
R449	▲ 1-202-727-51	SOLID	4.7M 10% 1/2W	RV302	1-230-781-11	RES, VAR, CARBON 20KX4			
R450	1-247-825-00	CARBON	560 5% 1/6W	RV303	1-230-781-11	RES, VAR, CARBON 20KX4			
R451	1-247-083-00	CARBON	10 5% 1/4W	RV304	1-230-781-11	RES, VAR, CARBON 20KX4			
R452	1-247-873-00	CARBON	56K 5% 1/6W	RV305	1-230-632-11	RES, ADJ, CARBON 33K			
R501	1-214-788-00	METAL	300K 1% 1/4W	RV306	1-228-992-11	RES, ADJ, CARBON 3.3K			
R502	1-216-460-11	METAL OXIDE	3.9K 5% 2W F	RV401	1-228-991-00	RES, ADJ, CARBON 2.2K			
R503	1-216-460-11	METAL OXIDE	3.9K 5% 2W F	RV402	1-228-993-00	RES, ADJ, CARBON 4.7K			
R505	1-249-459-11	CARBON	12K 5% 1/4W F	RV501	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K			
R506	1-247-143-00	CARBON	3.3K 5% 1/4W	RV502	1-228-996-00	RES, ADJ, CARBON 47K			
R507	1-247-843-00	CARBON	3.3K 5% 1/6W	RV503	1-228-992-11	RES, ADJ, CARBON 3.3K			
R508	1-247-119-00	CARBON	330 5% 1/4W	RV504	1-228-994-00	RES, ADJ, CARBON 10K			
R510	1-247-151-00	CARBON	6.8K 5% 1/4W	<u>SWITCH</u>					
R511	1-247-843-00	CARBON	3.3K 5% 1/6W	S001	1-554-804-11	SWITCH, PUSH (1 KEY)			
R512	1-247-831-00	CARBON	1K 5% 1/6W	S002	1-554-804-11	SWITCH, PUSH (1 KEY)			
R513	1-247-159-00	CARBON	15K 5% 1/4W	S003	1-554-804-11	SWITCH, PUSH (1 KEY)			
R515	1-247-159-00	CARBON	15K 5% 1/4W	S004	1-554-804-11	SWITCH, PUSH (1 KEY)			
R516	1-216-434-11	METAL OXIDE	1.8K 5% 1W F	S005	1-554-804-11	SWITCH, PUSH (1 KEY)			
R517	1-215-892-11	METAL OXIDE	1K 5% 2W F	S006	1-554-804-11	SWITCH, PUSH (1 KEY)			
R518	▲ 1-213-146-61	METAL OXIDE	1.8K 5% 1W F	S007	1-554-804-11	SWITCH, PUSH (1 KEY)			
R519	1-247-119-00	CARBON	330 5% 1/4W	S008	1-554-804-11	SWITCH, PUSH (1 KEY)			
R520	▲ 1-249-447-51	CARBON	1 5% 1/4W F	S009	1-554-804-11	SWITCH, PUSH (1 KEY)			
R521	▲ 1-249-383-51	CARBON	1.5 5% 1/8W F	S010	1-554-804-11	SWITCH, PUSH (1 KEY)			
R522	1-215-854-51	METAL	15K 1% 1/4W	S013	1-554-804-11	SWITCH, PUSH (1 KEY)			
R523	1-214-747-00	METAL	5.6K 1% 1/4W	S014	1-554-824-11	SWITCH, PUSH (1 KEY)			
R524	▲	CARBON	1/4W						
R525	1-216-460-11	METAL OXIDE	3.9K 5% 2W F						

The components identified by **▲** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
S113	1-570-240-11	SWITCH, ROTARY		R703	1-247-821-00	CARBON	390 5% 1/6W
S113	1-570-240-11	SWITCH, ROTARY		R704	1-247-841-00	CARBON	2.7K 5% 1/6W
S501	1-554-186-00	SWITCH, LEVER		R705	1-202-824-00	SOLID	3.3K 1/2W
S601	▲1-570-224-11	SWITCH, PUSH (AC POWER)(1 KEY)		R706	1-206-692-00	METAL OXIDE	15K 5% 2W F
<u>TRANSFORMER</u>				R707	1-247-843-00	CARBON	3.3K 5% 1/6W
T251	▲1-427-530-12	TRANSFORMER, OUTPUT (USA ONLY)		R708	1-247-831-00	CARBON	1K 5% 1/6W
T251	▲1-427-479-11	TRANSFORMER (SOT)(CND ONLY)		R709	1-247-825-00	CARBON	560 5% 1/6W
T401	1-421-749-11	TRANSFORMER, INSULATING		R710	1-247-841-00	CARBON	2.7K 5% 1/6W
T501	1-437-090-00	HDT		R711	1-202-824-00	SOLID	3.3K 1/2W
T601	▲1-421-357-31	TRANSFORMER, LINE FILTER (USA ONLY)		R712	1-206-692-00	METAL OXIDE	15K 5% 2W F
T601	▲1-421-592-11	TRANSFORMER, FERRITE (CND ONLY)		R713	1-247-843-00	CARBON	3.3K 5% 1/6W
<u>THERMISTOR</u>				R714	1-247-831-00	CARBON	1K 5% 1/6W
TH301	1-800-202-XX	THERMISTOR S-10K		R715	1-247-825-00	CARBON	560 5% 1/6W
THP601	▲1-800-686-51	THERMISTOR (POSITIVE)		R716	1-247-841-00	CARBON	2.7K 5% 1/6W
<u>TUNER</u>				R717	1-202-824-00	SOLID	3.3K 1/2W
TU101	▲1-463-603-11	TUNER, ET (BTP-201)		R718	1-206-692-00	METAL OXIDE	15K 5% 2W F
<u>IF BLOCK</u>				R719	1-202-842-51	SOLID	220K 1/2W
VIF201	1-464-478-11	IF BLOCK (IFB-450)		R720	1-202-719-00	SOLID	1M 10% 1/2W
<u>CRYSTAL</u>				R721	1-212-359-00	METAL OXIDE	0.82 5% 1W F
X301	1-527-396-00	CRYSTAL, OSC		R722	1-202-848-00	SOLID	680K 1/2W
*****							
*A-1330-601-A C BOARD, COMPLETE				R723	1-202-838-00	SOLID	100K 1/2W
*****				<u>VARIABLE RESISTOR</u>			
*****				RV701	1-230-104-00	RES, ADJ, CARBON	4.7K
*****				RV702	1-230-105-00	RES, ADJ, CARBON	3.3K
*****				RV703	1-230-104-00	RES, ADJ, CARBON	4.7K
*****				RV704	1-230-105-00	RES, ADJ, CARBON	3.3K
*****				RV705	1-230-104-00	RES, ADJ, CARBON	4.7K
*****				RV706	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M
*****				RV707	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M
*****				RV708	▲1-230-798-11	RES, ADJ, METAL GLAZE	90M
*****				RV709	1-230-409-11	RES, ADJ, CARBON	22K
<u>CONNECTOR</u>				*****			
C2	*1-508-786-00	2P PLUG (M)		*****			
C3	*1-564-442-11	PLUG, CONNECTOR (2.5MM) 6P		*1-614-811-11 H BOARD			
C4	*1-508-765-00	3P PLUG (M)		*****			
<u>CAPACITOR</u>				*4-374-937-01 HOLDER, LED			
C705	1-162-116-00	CERAMIC	680PF	10%	2KV	<u>DIODE</u>	
C706	1-129-714-00	FILM	0.01MF	10%	630V	D002	8-719-907-50 DIODE GL-7N202
<u>COIL</u>				D004	8-719-812-42	DIODE TLY124	
L701	1-408-420-00	MICRO INDUCTOR	82UH	<u>CONNECTOR</u>			
L702	1-408-420-00	MICRO INDUCTOR	82UH	H1	*1-564-457-11	PLUG, CONNECTOR (2.5MM) 9P	
L703	1-408-420-00	MICRO INDUCTOR	82UH	H2	*1-564-453-11	PLUG, CONNECTOR (2.5MM) 5P	
L704	1-408-424-00	MICRO INDUCTOR	180UH	<u>SWITCH</u>			
<u>TRANSISTOR</u>				S011	1-554-303-00	SWITCH, KEY BOARD	
Q701	8-729-326-11	TRANSISTOR	2SC2611	S012	1-554-303-00	SWITCH, KEY BOARD	
Q702	8-729-326-11	TRANSISTOR	2SC2611				
Q703	8-729-326-11	TRANSISTOR	2SC2611				
<u>RESISTOR</u>							
R701	1-247-851-00	CARBON	6.8K	5%	1/6W		

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## K

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	*1-614-794-11	K BOARD *****	

JACK

EJ901 1-507-756-00 JACK (SMALL TYPE)

\*\*\*\*\*

MISCELLANEOUS

\*\*\*\*\*

1-452-032-00 MAGNET, DISK; 10MM Ø  
 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø  
 △.1-551-603-11 CORD, POWER

L901 △ 1-426-146-22 COIL, DEGAUSSING (USA ONLY)  
 △ 1-426-146-31 COIL, DEMAGNETIZATION(CND ONLY)  
 L902 △ 1-426-146-22 COIL, DEGAUSSING (USA ONLY)  
 △ 1-426-146-31 COIL, DEMAGNETIZATION(CND ONLY)  
 L904 △ 1-451-234-22 DEFLECTION YOKE (SY-125A)  
 SP901 1-503-344-11 SPEAKER  
 T503 △ 1-439-314-21 TRANSFORMER ASSY, FLYBACK

V901 △.8-735-553-05 CRT (A34JBU10X)

\*\*\*\*\*

ACCESSORIES AND PACKING MATERIALS

\*\*\*\*\*

<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1-501-276-00	ANTENNA, TELESCOPIC (AN-18)	
1-504-103-11	EARPHONE	
1-513-379-00	CONVERTER (EAC-25) (CND ONLY)	
1-562-443-11	CONNECTOR, ANTENNA (USA ONLY)	
4-316-037-00	BAG, POLYETHYLENE	
4-374-989-01	INDIVIDUAL CARTON	
4-374-990-01	CUSHION (UPPER) (ASSY)	
4-374-991-01	CUSHION (LOWER) (ASSY)	
4-482-081-21	MANUAL, INSTRUCTION	
4-482-081-31	MANUAL, INSTRUCTION (CND ONLY)	
4-491-213-22	INSTRUCTION (USA ONLY)	

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

# KV-1365

## SONY<sup>®</sup> SERVICE MANUAL SUPPLEMENT

This supplement updates the service manual  
to include production changes starting with  
Serial No. 8500001.

*US Model*

*Chassis No. SCC-548X-A*  
*Serial No. 8500001 and later*

*Canadian Model*

*Chassis No. SCC-552M-A*  
*Serial No. 8500001 and later*  
April, 1986  
No. 1

### INTRODUCTION

Change of schematic diagram and  
printed wiring boards:

### TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
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MICROFILM

**CTV**

**ATTENTION!!**

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ÊTRE UTILISÉ LORS DE TOUT DÉPANNAGE.  
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDE À L'ALIMENTATION SECTEUR.

**ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!**

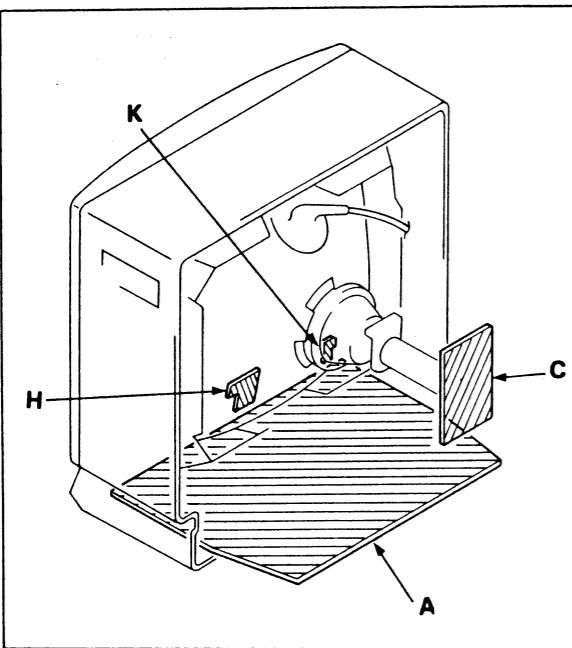
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDICUIT DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

**WARNING !!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.  
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

**SAFETY-RELATED COMPONENT WARNING !!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

**SECTION 1**  
**DIAGRAMS**
**1-1. CIRCUIT BOARDS LOCATION**

**1-2. SCHEMATIC DIAGRAMS**
**1****2****3****4****5****6****7****8****9****10****11****12**
**Note:**

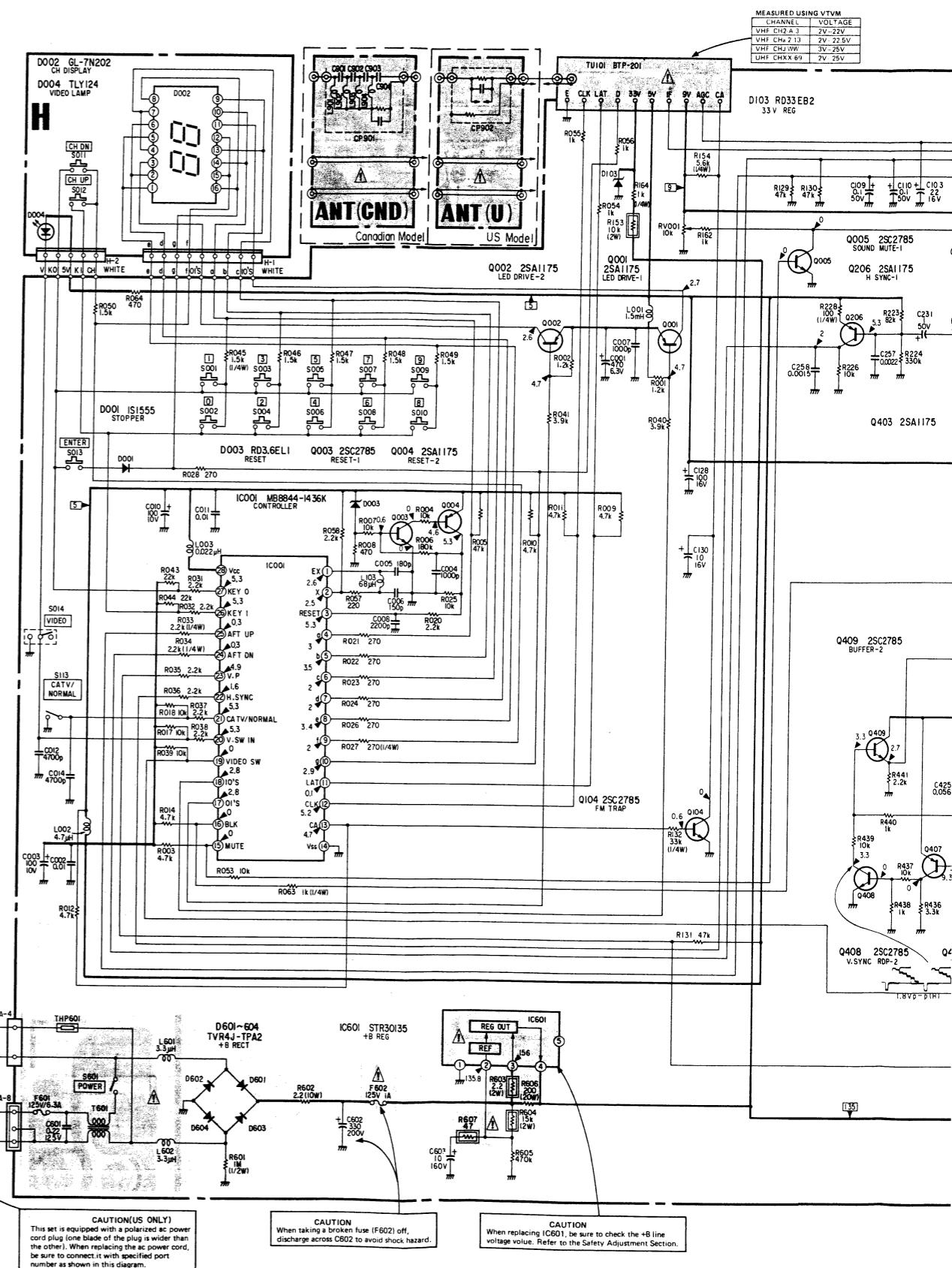
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\mu\text{F}$  50  $\text{WV}$  or less are not indicated except for electrolytics.
  - All resistors are in ohms,  $\frac{1}{8} \text{ W}$  unless otherwise noted.  $\text{K}$ : 1000  $\Omega$ ,  $\text{M}$ : 1000  $\text{k}\Omega$ .
  - : nonflammable resistor.
  - : internal component.
  - : panel designation.
  - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  - The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
  - When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R524 adjustment on page 15.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
C307,C524,D502, D512,IC301,R521, R522,R523,R524, R530,R534,T503	R524 adjustment

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10  $M\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- :  $\text{B}+$  bus.
- :  $\text{B}-$  bus.
- Voltage variations may be noted due to normal production tolerances.
- : adjustment for repair.
- : Can not be measured.

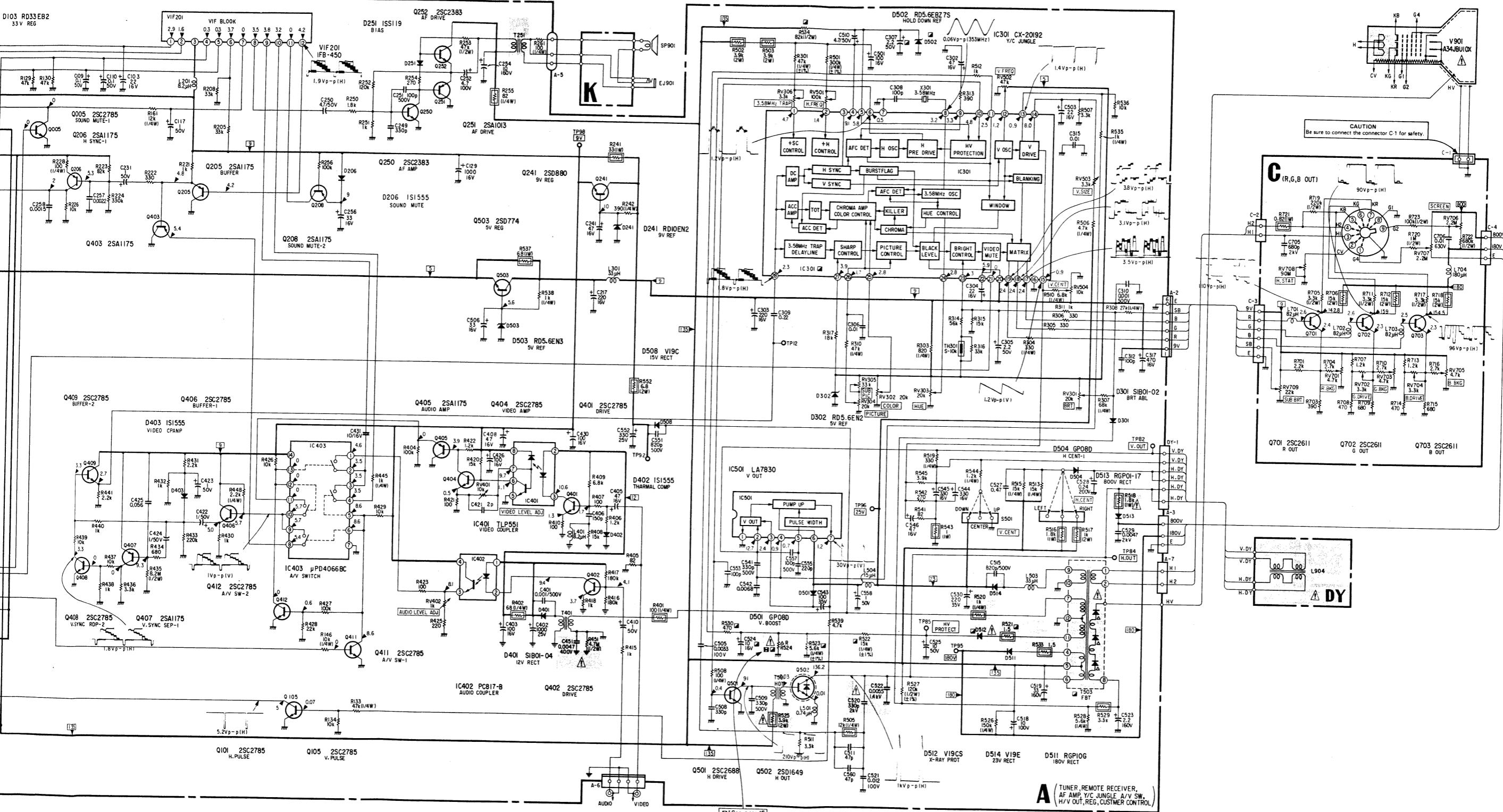
**Note:** The components identified by shading and mark are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27

MEASURED USING VTVM	CHANNEL	VOLTAGE
	VHF CH2-13	2V 22.5V
	VHF CH4-WW	3V 25V
	UHF CHXX-69	2V 25V



A (TUNER, REMOTE RECEIVER,  
AF AMP, Y/C JUNGLE A/V SW,  
H/V OUT, REG, CUSTOMER CONTROL)

See page 15

## 1-3. PRINTED WIRING BOARDS

— Conductor Side —

VIF, SIF, V.H DEF, POWER SUPPLY, AGC, CHROMA,  
Y AMP, CUSTOMER CONTROL, TUNER,  
EXTERNAL VIDEO/AUDIO IN, AUDIO OUT

A

A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

— A Board —

A

B

C

D

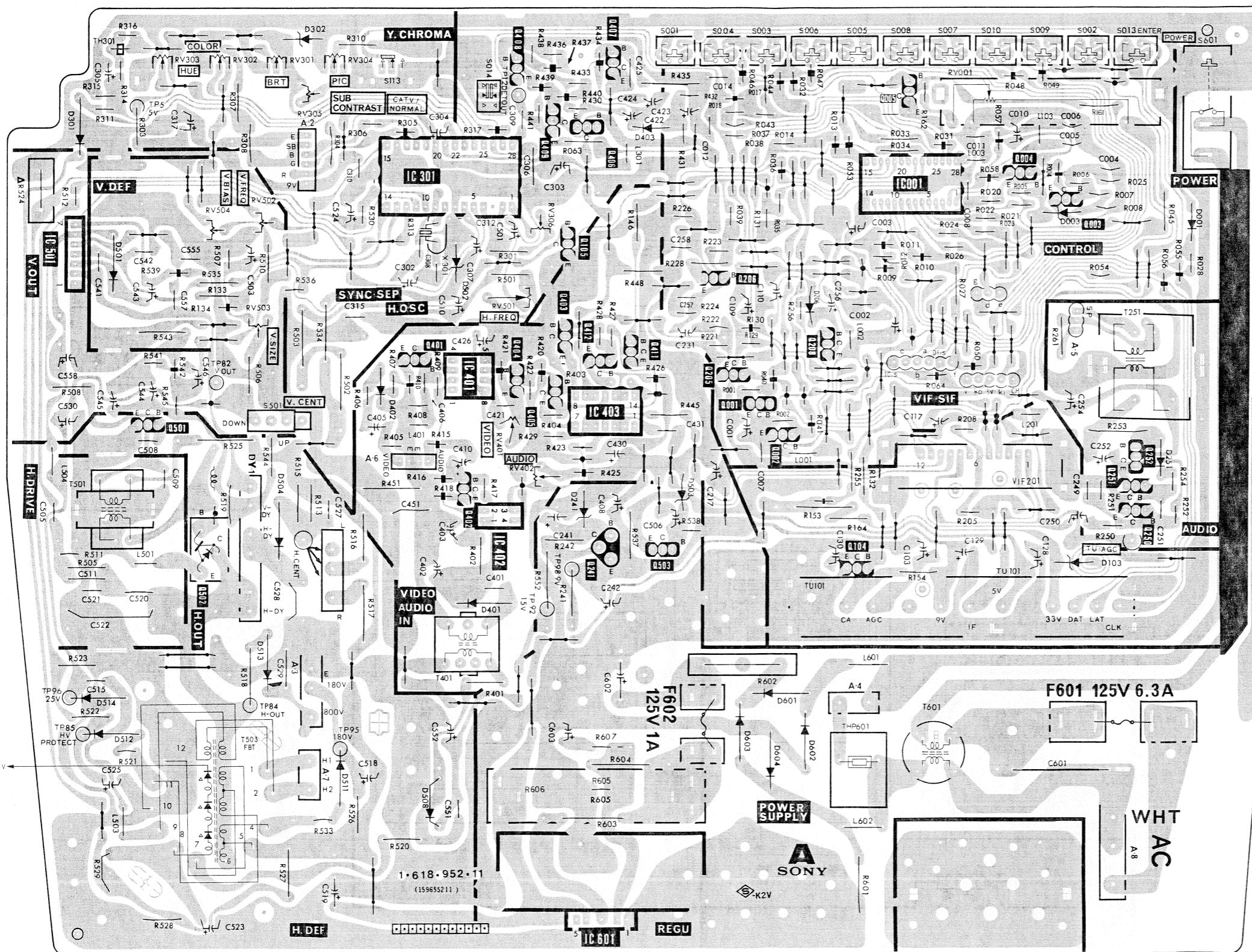
E

F

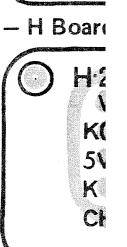
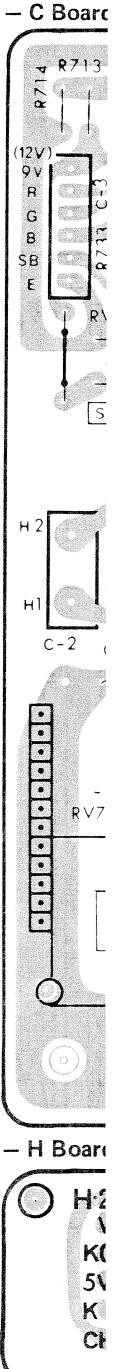
G

H

J



Q	IC	D	ADJ	TP
407	302	RV301	-304	
408	005	301	403	RV305 RV001
409	006	406		I2 5
410	004	IC001	003	
411	001	003		RV502 RV306 RV504
412	002	IC501	206	501 502
413	001	IC401	206	RV501
414	002	405	402	RV503
415	001	IC403	251	RV401
416	002	501	252	251
417	003	402	251	RV402
418	004	IC402	250	503
419	005	401	250	241
420	006	502	253	504
421	007	503	104	103
422	008	401	103	92
423	009	513		
424	010	514	601	96
425	011	603		84
426	012	512	602	85
427	013	604		95
428	014	511		
429	015	508		
430	016	IC601		





## SECTION 2

### ELECTRICAL PARTS LIST

A

**NOTE:**

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- CAPACITORS
- MF :  $\mu$ F, PF :  $\mu$ PF

- RESISTORS**
- All resistors are in ohms
- F : nonflammable
- COILS**
- MMH : mH, UH :  $\mu$ H

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1295-973-A	A BOARD, COMPLETE	*****	C306	1-162-306-31	CERAMIC	0.01MF 30% 16V
				C307	1-123-381-00	ELECT	2.2MF 20% 50V
				C308	1-102-973-00	CERAMIC	100PF 10% 50V
				C309	1-136-169-00	FILM	0.22MF 5% 50V
				C310	1-102-038-00	CERAMIC	0.001MF 500V
	A 1-536-923-12	TERMINAL BOARD ASSY, ANTENNA		C312	1-102-106-00	CERAMIC	100PF 10% 50V
	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		C315	1-101-004-00	CERAMIC	0.01MF 50V
	3-701-833-01	HEAD, WASHER, TAPPING SCREW		C317	1-123-323-00	ELECT	470MF 20% 16V
	4-302-428-00	HEAD, WASHER, TAPPING SCREW		C401	1-162-318-11	CERAMIC	0.001MF 10% 500V
	*4-363-404-00	HOLDER, IC		C402	1-124-557-11	ELECT	1000MF 20% 25V
	4-365-216-00	SPACER, MICA		C403	1-123-333-00	ELECT	100MF 20% 16V
			<u>CONNECTOR</u>	C405	1-123-332-00	ELECT	47MF 20% 16V
A2	*1-564-442-11	PLUG, CONNECTOR (2.5MM) 6P		C406	1-101-361-00	CERAMIC	150PF 5% 50V
A3	*1-508-765-00	3P PLUG (M)		C410	1-123-380-00	ELECT	1MF 20% 50V
A4	*1-508-786-00	2P PLUG (M)		C421	1-102-939-61	CERAMIC	2PF 0.5PF 50V
A6	*1-564-440-11	PLUG, CONNECTOR (2.5MM) 4P		C422	1-123-380-00	ELECT	1MF 20% 50V
A7	*1-508-786-00	2P PLUG (M)		C423	1-123-380-00	ELECT	1MF 20% 50V
A8	*1-506-349-21	3P PLUG (L)		C424	1-123-380-00	ELECT	1MF 20% 50V
			<u>CAPACITOR</u>	C425	1-108-597-00	MYLAR	0.056MF 5% 50V
				C426	1-123-333-00	ELECT	100MF 20% 16V
C001	1-123-298-00	ELECT	470MF 20% 6.3V	C430	1-123-333-00	ELECT	100MF 20% 16V
C002	1-101-004-00	CERAMIC	0.01MF 50V	C431	1-124-645-11	ELECT	10MF 20% 16V
C003	1-124-443-00	ELECT	100MF 20% 10V	C451	1-161-953-00	CERAMIC	0.0047MF 20% 400V
C004	1-102-074-00	CERAMIC	0.001MF 10% 50V	C501	1-123-333-00	ELECT	100MF 20% 16V
C005	1-102-976-00	CERAMIC	180PF 5% 50V	C503	1-123-330-00	ELECT	22MF 20% 16V
C006	1-101-361-00	CERAMIC	150PF 5% 50V	C505	1-106-184-00	MYLAR	0.0033MF 10% 100V
C007	1-102-074-00	CERAMIC	0.001MF 10% 50V	C506	1-123-318-00	ELECT	33MF 20% 16V
C008	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C508	1-102-112-00	CERAMIC	330PF 10% 50V
C010	1-124-443-00	ELECT	100MF 20% 10V	C509	1-102-030-00	CERAMIC	330PF 10% 500V
C011	1-101-004-00	CERAMIC	0.01MF 50V	C510	1-123-369-00	ELECT	4.7MF 20% 50V
C012	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C511	1-161-267-00	CERAMIC	47PF 5% 50V
C014	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C515	1-102-212-00	CERAMIC	820PF 10% 500V
C103	1-123-330-00	ELECT	22MF 20% 16V	C518	1-123-384-00	ELECT	10MF 20% 100V
C109	1-123-586-00	ELECT	0.1MF 20% 50V	C519	1-123-024-00	ELECT	33MF 160V
C110	1-123-586-00	ELECT	0.1MF 20% 50V	C520	A 1-162-115-51	CERAMIC	330PF 10% 2KV
C117	1-123-380-00	ELECT	1MF 20% 50V	C521	1-106-198-00	MYLAR	0.012MF 10% 100V
C128	1-123-333-00	ELECT	100MF 20% 16V	C522	A 1-136-063-11	FILM	0.0055MF 3% 1.4KV
C129	1-123-324-00	ELECT	1000MF 20% 16V	C523	1-123-930-00	ELECT	2.2MF 20% 160V
C130	1-123-356-00	ELECT	10MF 20% 16V	C524	1-123-356-00	ELECT	10MF 20% 16V
C217	1-123-321-00	ELECT	220MF 20% 16V	C525	1-123-356-00	ELECT	10MF 20% 50V
C231	1-123-380-00	ELECT	1MF 20% 50V	C527	1-136-173-00	FILM	0.47MF 5% 50V
C241	1-123-332-00	ELECT	47MF 20% 16V	C528	1-136-136-00	FILM	0.24MF 5% 200V
C249	1-162-288-31	CERAMIC	330PF 10% 50V	C529	1-102-223-00	CERAMIC	0.0047MF 10% 2KV
C250	1-123-369-00	ELECT	4.7MF 20% 50V	C530	1-123-346-00	ELECT	220MF 20% 35V
C251	1-162-117-00	CERAMIC	100PF 10% 500V	C541	1-102-030-00	CERAMIC	330PF 10% 500V
C252	1-123-383-00	ELECT	4.7MF 20% 100V	C542	1-108-835-00	MYLAR	0.0068MF 10% 50V
C254	1-123-933-00	ELECT	10MF 20% 160V	C543	1-123-345-00	ELECT	100MF 20% 35V
C256	1-123-318-00	ELECT	33MF 20% 16V	C544	1-123-322-00	ELECT	330MF 20% 16V
C257	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C545	1-123-322-00	ELECT	330MF 20% 16V
C258	1-106-176-00	MYLAR	0.0015MF 10% 50V	C546	1-123-332-00	ELECT	47MF 20% 16V
C302	1-123-332-00	ELECT	47MF 20% 16V	C551	1-102-212-00	CERAMIC	820PF 10% 500V
C303	1-123-321-00	ELECT	220MF 20% 16V	C552	1-123-335-00	ELECT	330MF 20% 25V
C304	1-123-330-00	ELECT	22MF 20% 16V	C553	1-102-212-00	CERAMIC	220PF 5% 50V
C305	1-123-381-00	ELECT	2.2MF 20% 50V	C555	1-102-978-00	CERAMIC	220PF 5% 50V

**A**

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	
C557	1-101-810-00	CERAMIC	100PF	5%	500V	L201	1-408-441-31	MICRO INDUCTOR	8.2UH			
C558	1-123-380-00	ELECT	1MF	20%	50V	L301	1-408-415-00	MICRO INDUCTOR	33UH			
C560	1-101-880-00	CERAMIC	47PF	5%	50V	L401	1-408-441-31	MICRO INDUCTOR	8.2UH			
C601 <b>A</b>	1-130-682-51	FILM	0.22MF	20%	125V	L501	1-407-365-00	COIL, CHOKE				
C602	1-124-959-11	ELECT	330MF	20%	200V	L503	1-407-699-00	MICRO INDUCTOR	33UH			
C603	1-123-933-00	ELECT	10MF	20%	160V	L504	1-407-695-00	MICRO INDUCTOR	15UH			
		<u>DIODE</u>				L601	1-408-225-00	MICRO INDUCTOR	3.3UH			
						L602	1-408-225-00	MICRO INDUCTOR	3.3UH			
D001	8-719-815-55	DIODE	1S1555					<u>TRANSISTOR</u>				
D003	8-719-101-38	DIODE	RD3.6E-L1			Q001	8-729-117-54	TRANSISTOR	2SA1175			
D103	8-719-101-04	DIODE	RD33E-B2			Q002	8-729-117-54	TRANSISTOR	2SA1175			
D206	8-719-815-55	DIODE	1S1555			Q003	8-729-178-54	TRANSISTOR	2SC2785			
D241	8-719-102-90	DIODE	RD10E-N2			Q004	8-729-117-54	TRANSISTOR	2SA1175			
D251	8-719-911-19	DIODE	1SS119			Q005	8-729-178-54	TRANSISTOR	2SC2785			
D301	8-719-200-02	DIODE	10E2			Q104	8-729-178-54	TRANSISTOR	2SC2785			
D302	8-719-102-71	DIODE	RD5.6E-N2			Q105	8-729-178-54	TRANSISTOR	2SC2785			
D401	8-719-901-04	DIODE	SIB01-04			Q205	8-729-117-54	TRANSISTOR	2SA1175			
D402	8-719-815-55	DIODE	1S1555			Q206	8-729-117-54	TRANSISTOR	2SA1175			
D403	8-719-815-55	DIODE	1S1555			Q208	8-729-117-54	TRANSISTOR	2SA1175			
D501	8-719-911-55	DIODE	U05G			Q241	8-729-288-03	TRANSISTOR	2SD880			
D502	8-719-100-35	DIODE	RD5.6E-B2			Q250	8-729-238-32	TRANSISTOR	2SC2383			
D503	8-719-102-72	DIODE	RD5.6E-N3			Q251	8-729-201-32	TRANSISTOR	2SA1013			
D504	8-719-911-55	DIODE	U05G			Q252	8-729-238-32	TRANSISTOR	2SC2383			
D508	8-719-901-93	DIODE	V19E			Q401	8-729-178-54	TRANSISTOR	2SC2785			
D511	8-719-924-06	DIODE	ERC24-06S			Q402	8-729-178-54	TRANSISTOR	2SC2785			
D512 <b>A</b>	8-719-901-94	DIODE	V19CS			Q403	8-729-117-54	TRANSISTOR	2SA1175			
D513	8-719-300-65	DIODE	ES1F			Q404	8-729-178-54	TRANSISTOR	2SC2785			
D514 <b>A</b>	8-719-901-93	DIODE	V19E			Q405	8-729-117-54	TRANSISTOR	2SA1175			
D601 <b>A</b>	8-719-801-71	DIODE	TVR4J-TPA2			Q406	8-729-178-54	TRANSISTOR	2SC2785			
D602	8-719-801-71	DIODE	TVR4J-TPA2			Q407	8-729-117-54	TRANSISTOR	2SA1175			
D603	8-719-801-71	DIODE	TVR4J-TPA2			Q408	8-729-178-54	TRANSISTOR	2SC2785			
D604	8-719-801-71	DIODE	TVR4J-TPA2			Q409	8-729-178-54	TRANSISTOR	2SC2785			
		<u>FUSE</u>				Q411	8-729-178-54	TRANSISTOR	2SC2785			
F601 <b>A</b>	1-532-509-11	FUSE, GLASS TUBE	6.3A/125V			Q412	8-729-178-54	TRANSISTOR	2SC2785			
	1-533-127-00	FUSE CLIP; F601				Q501	8-729-168-82	TRANSISTOR	2SC2688			
F602 <b>A</b>	1-532-536-11	FUSE, GLASS-TUBE	1A/125V			Q502	8-729-802-50	TRANSISTOR	2SD1649-CA			
	*1-533-146-00	HOLDER, FUSE; F602				Q503	8-729-177-43	TRANSISTOR	2SD74			
		<u>IC</u>						<u>RESISTOR</u>				
IC001	8-759-922-85	IC	MB8844-1436K			R001	1-247-833-00	CARBON	1.2K	5%	1/6W	
IC301	8-752-019-20	IC	CX20192			R002	1-247-833-00	CARBON	1.2K	5%	1/6W	
IC401	8-719-800-43	DIODE	TLP551			R004	1-249-429-11	CARBON	10K	5%	1/6W	
IC402	8-719-936-96	PC817-B				R005	1-249-437-11	CARBON	47K	5%	1/6W	
IC501	8-759-801-98	IC	LA7830			R006	1-247-885-00	CARBON	180K	5%	1/6W	
IC601 <b>A</b>	8-749-901-35	IC	STR30135			R007	1-249-429-11	CARBON	10K	5%	1/6W	
		<u>COIL</u>				R008	1-247-823-00	CARBON	470	5%	1/6W	
JW113	1-408-415-00	MICRO INDUCTOR	33UH			R009	1-249-425-11	CARBON	4.7K	5%	1/6W	
L001	1-407-494-00	MICRO INDUCTOR	1.5MMH			R010	1-249-425-11	CARBON	4.7K	5%	1/6W	
L002	1-408-438-11	MICRO INDUCTOR	4.7UH			R011	1-249-425-11	CARBON	4.7K	5%	1/6W	
L003	1-408-877-00	MICRO INDUCTOR	0.22UH			R012	1-249-425-11	CARBON	4.7K	5%	1/6W	
L103	1-408-452-31	MICRO INDUCTOR	68UH			R013	1-249-425-11	CARBON	4.7K	5%	1/6W	
						R014	1-249-425-11	CARBON	4.7K	5%	1/6W	

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Remark</u>
R017	1-249-429-11	CARBON	10K	5%	1/6W		R222	1-247-819-00	CARBON	330	5%	1/6W	
R018	1-249-429-11	CARBON	10K	5%	1/6W		R223	1-249-440-11	CARBON	82K	5%	1/6W	
R020	1-249-421-11	CARBON	2.2K	5%	1/6W		R224	1-247-891-00	CARBON	330K	5%	1/6W	
R021	1-247-817-00	CARBON	270	5%	1/6W		R226	1-249-429-11	CARBON	10K	5%	1/6W	
R022	1-247-817-00	CARBON	270	5%	1/6W		R228	1-247-700-11	CARBON	100	5%	1/4W	
R023	1-247-817-00	CARBON	270	5%	1/6W		R241	1-215-881-11	METAL OXIDE	15	5%	2W	F
R024	1-247-817-00	CARBON	270	5%	1/6W		R242	1-246-463-00	CARBON	390	5%	1/4W	
R025	1-249-429-11	CARBON	10K	5%	1/6W		R250	1-247-837-00	CARBON	1.8K	5%	1/6W	
R026	1-247-817-00	CARBON	270	5%	1/6W		R251	1-247-831-00	CARBON	1K	5%	1/6W	
R027	1-247-705-11	CARBON	270	5%	1/4W		R251	1-249-441-11	CARBON	100K	5%	1/6W	
R028	1-247-817-00	CARBON	270	5%	1/6W		R252	1-247-881-00	CARBON	120K	5%	1/6W	
R031	1-249-421-11	CARBON	2.2K	5%	1/6W		R253	1-247-280-00	CARBON	47K	5%	1/2W	
R032	1-249-421-11	CARBON	2.2K	5%	1/6W		R254	1-247-817-00	CARBON	270	5%	1/6W	
R033	1-247-717-11	CARBON	2.2K	5%	1/4W		R255	1-247-699-11	CARBON	82	5%	1/4W	F
R034	1-247-717-11	CARBON	2.2K	5%	1/4W		R256	1-249-441-11	CARBON	100K	5%	1/6W	
R035	1-249-421-11	CARBON	2.2K	5%	1/6W		R261	1-202-359-11	SOLID	100	5%	1/4W	
R036	1-249-421-11	CARBON	2.2K	5%	1/6W		R301	1-214-769-00	METAL	47K	1%	1/4W	
R037	1-249-421-11	CARBON	2.2K	5%	1/6W		R303	1-247-712-11	CARBON	820	5%	1/4W	
R038	1-249-421-11	CARBON	2.2K	5%	1/6W		R304	1-247-706-11	CARBON	330	5%	1/4W	
R039	1-249-425-11	CARBON	4.7K	5%	1/6W		R305	1-247-819-00	CARBON	330	5%	1/6W	
R040	1-247-845-00	CARBON	3.9K	5%	1/6W		R306	1-247-819-00	CARBON	330	5%	1/6W	
R041	1-247-845-00	CARBON	3.9K	5%	1/6W		R307	1-246-517-00	CARBON	68K	5%	1/4W	
R043	1-249-433-11	CARBON	22K	5%	1/6W		R308	1-246-507-00	CARBON	27K	5%	1/4W	
R044	1-249-433-11	CARBON	22K	5%	1/6W		R310	1-247-171-00	CARBON	47K	5%	1/4W	
R045	1-247-135-00	CARBON	1.5K	5%	1/4W		R311	1-247-831-00	CARBON	1K	5%	1/6W	
R046	1-249-419-11	CARBON	1.5K	5%	1/6W		R313	1-247-821-00	CARBON	390	5%	1/6W	
R047	1-249-419-11	CARBON	1.5K	5%	1/6W		R314	1-247-873-00	CARBON	56K	5%	1/6W	
R048	1-249-419-11	CARBON	1.5K	5%	1/6W		R315	1-247-859-00	CARBON	15K	5%	1/6W	
R049	1-249-419-11	CARBON	1.5K	5%	1/6W		R316	1-249-435-11	CARBON	33K	5%	1/6W	
R050	1-249-419-11	CARBON	1.5K	5%	1/6W		R317	1-249-432-11	CARBON	18K	5%	1/6W	
R053	1-249-429-11	CARBON	10K	5%	1/6W		R401	1-247-107-00	CARBON	100	5%	1/4W	F
R054	1-247-831-00	CARBON	1K	5%	1/6W		R402	1-247-698-11	CARBON	68	5%	1/4W	F
R055	1-247-831-00	CARBON	1K	5%	1/6W		R404	1-249-441-11	CARBON	100K	5%	1/6W	
R056	1-247-831-00	CARBON	1K	5%	1/6W		R405	1-247-805-00	CARBON	82	5%	1/6W	
R057	1-247-815-00	CARBON	220	5%	1/6W		R406	1-247-833-00	CARBON	1.2K	5%	1/6W	
R058	1-249-421-11	CARBON	2.2K	5%	1/6W		R407	1-249-405-11	CARBON	100	5%	1/6W	
R063	1-247-713-11	CARBON	1K	5%	1/4W		R408	1-247-859-00	CARBON	15K	5%	1/6W	
R064	1-247-823-00	CARBON	470	5%	1/6W		R409	1-247-851-00	CARBON	6.8K	5%	1/6W	
R129	1-249-437-11	CARBON	47K	5%	1/6W		R410	1-249-405-11	CARBON	100	5%	1/6W	
R130	1-249-437-11	CARBON	47K	5%	1/6W		R415	1-247-831-00	CARBON	1K	5%	1/6W	
R131	1-249-437-11	CARBON	47K	5%	1/6W		R416	1-247-885-00	CARBON	180K	5%	1/6W	
R132	1-247-167-00	CARBON	33K	5%	1/4W		R417	1-247-885-00	CARBON	180K	5%	1/6W	
R133	1-247-171-00	CARBON	47K	5%	1/4W		R418	1-247-831-00	CARBON	1K	5%	1/6W	
R134	1-249-429-11	CARBON	10K	5%	1/6W		R420	1-247-859-00	CARBON	15K	5%	1/6W	
R146	1-247-725-11	CARBON	10K	5%	1/4W		R421	1-249-405-11	CARBON	100	5%	1/6W	
R153	1-215-898-11	METAL OXIDE	10K	5%	2W	F	R422	1-247-833-00	CARBON	1.2K	5%	1/6W	
R154	1-247-149-00	CARBON	5.6K	5%	1/4W		R423	1-249-405-11	CARBON	100	5%	1/6W	
R161	1-249-459-11	CARBON	12K	5%	1/4W		R425	1-247-815-00	CARBON	220	5%	1/6W	
R162	1-247-831-00	CARBON	1K	5%	1/6W		R426	1-249-429-11	CARBON	10K	5%	1/6W	
R164	1-247-713-11	CARBON	1K	5%	1/4W		R427	1-249-441-11	CARBON	100K	5%	1/6W	
R205	1-249-435-11	CARBON	33K	5%	1/6W		R428	1-249-433-11	CARBON	22K	5%	1/6W	
R208	1-249-435-11	CARBON	33K	5%	1/6W		R429	1-249-429-11	CARBON	10K	5%	1/6W	
R221	1-247-831-00	CARBON	1K	5%	1/6W		R430	1-247-831-00	CARBON	1K	5%	1/6W	

A

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

A	C	H	K
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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
		<u>TUNER</u>		R717	1-202-824-00	SOLID	3.3K
TU101	▲ 1-463-603-11	TUNER, ET (BTP-201)		R718	1-215-899-11	METAL OXIDE	15K 5% 2W F
		<u>IF BLOCK</u>		R719	1-202-842-51	SOLID	220K 1/2W
VIF201	1-464-478-11	IF BLOCK (IFB-450)		R720	1-202-719-00	SOLID	1M 10% 1/2W
		<u>CRYSTAL</u>		R721	1-216-348-00	METAL OXIDE	0.82 5% 1W F
X301	1-527-396-00	CRYSTAL, OSC		R722	1-202-848-00	SOLID	680K 1/2W
*****	*****	*****	*****	R723	1-202-838-00	SOLID	100K 1/2W
*A-1330-601-A	C BOARD, COMPLETE	*****	*****				
C1	*1-506-371-00	2P PLUG (L)					
C2	*1-508-786-00	2P PLUG (M)		RV701	1-228-723-00	RES, ADJ, CERAMIC CARBON	4.7K
C3	*1-564-442-11	PLUG, CONNECTOR (2.5MM) 6P		RV702	1-228-722-00	RES, ADJ, CERAMIC CARBON	3.3K
C4	*1-508-765-00	3P PLUG (M)		RV703	1-228-723-00	RES, ADJ, CERAMIC CARBON	4.7K
		<u>CAPACITOR</u>		RV704	1-228-722-00	RES, ADJ, CERAMIC CARBON	3.3K
C705	1-162-116-00	CERAMIC	680PF	RV705	1-228-723-00	RES, ADJ, CERAMIC CARBON	4.7K
C706	1-129-714-00	FILM	0.01MF				
		<u>COIL</u>		RV706	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M
L701	1-408-420-00	MICRO INDUCTOR	82UH	RV707	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M
L702	1-408-420-00	MICRO INDUCTOR	82UH	RV708	▲ 1-230-798-11	RES, ADJ, METAL GLAZE	90M
L703	1-408-420-00	MICRO INDUCTOR	82UH	RV709	1-228-725-00	RES, ADJ, CERAMIC CARBON	22K
L704	1-408-424-00	MICRO INDUCTOR	180UH	*****	*****	*****	*****
		<u>TRANSISTOR</u>		*1-614-811-11	H BOARD	*****	
Q701	8-729-326-11	TRANSISTOR	2SC2611	*4-374-937-01	HOLDER, LED		
Q702	8-729-326-11	TRANSISTOR	2SC2611				
Q703	8-729-326-11	TRANSISTOR	2SC2611	D002	8-719-907-50	DIODE GL-7N202	
		<u>RESISTOR</u>		D004	8-719-812-44	DIODE LY124	
R701	1-249-421-11	CARBON	2.2K	*****	*****	*****	*****
R703	1-247-821-00	CARBON	390	H1	*1-564-457-11	PLUG, CONNECTOR (2.5MM) 9P	
R704	1-247-841-00	CARBON	2.7K	H2	*1-564-453-11	PLUG, CONNECTOR (2.5MM) 5P	
R705	1-202-824-00	SOLID	3.3K				
R706	1-215-899-11	METAL OXIDE	15K				
R707	1-247-833-00	CARBON	1.2K				
R708	1-247-823-00	CARBON	470				
R709	1-247-827-00	CARBON	680				
R710	1-247-841-00	CARBON	2.7K				
R711	1-202-824-00	SOLID	3.3K				
R712	1-215-899-11	METAL OXIDE	15K				
R713	1-247-833-00	CARBON	1.2K				
R714	1-247-823-00	CARBON	470				
R715	1-247-827-00	CARBON	680				
R716	1-247-841-00	CARBON	2.7K				
				EJ901	1-507-756-00	JACK (SMALL TYPE)	

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

# SONY

## TRINITRON® COLOR TV

### KV-1365

**US Model**

Chassis No. SCC-548X-A

**Canadian Model**

Chassis No. SCC-552M-A

#### WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

#### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

#### ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ÊTRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AU COMPOSANT AYANT RAPPORT A LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

PRINTED WIR

Note: All mounting from conductor

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

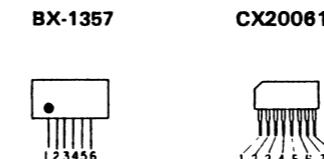
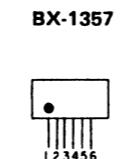
Note: Les composants identifiés par une trame et par une marque sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\mu\text{F}$  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms,  $\frac{1}{8}$  W unless otherwise noted. K: 1000  $\Omega$ , M: 1000 k $\Omega$ .
- : nonflammable resistor.
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R524 adjustment on page 15.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
C307,C524,D502, D512,IC301,R521, R522,R523,R524, R530,R534,T503	R524 adjustment

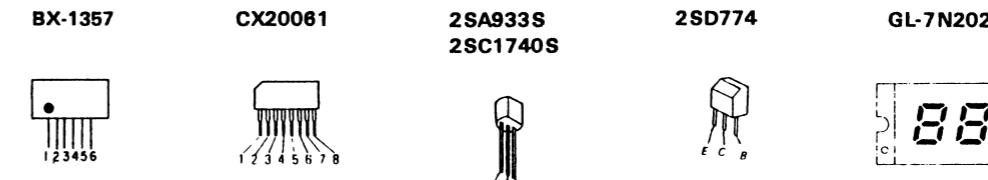
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M $\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- : B + bus.
- : B - bus.
- Voltage variations may be noted due to normal production tolerances.
- : adjustment for repair.
- : Can not be measured.



2SA933S  
2SC1740S



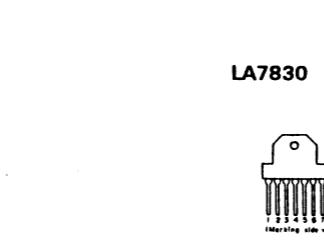
2SD774



CX20192  
CX525-1374K



2SC1826  
2SD1406  
2SD313HP  
2SD880



LA7830  
2SC2230A  
2SC2610BK  
2SD789



STR30135  
2SC2456  
2SC2611  
2SC2688



2SA1048  
2SA1115  
2SC2458  
2SC2603



2SD1135  
2SA1175  
2SC2785



2SD1649



SIB01-02  
SIB01-04



V06C



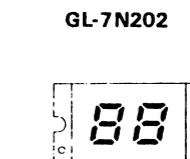
V19C



V19CS



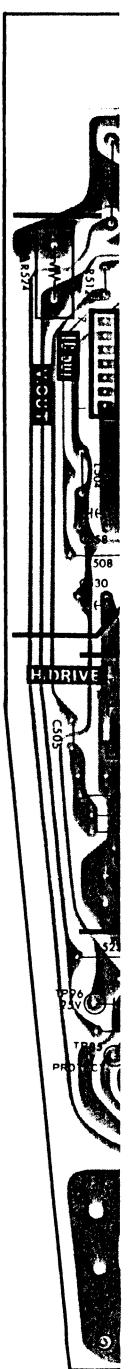
V19E



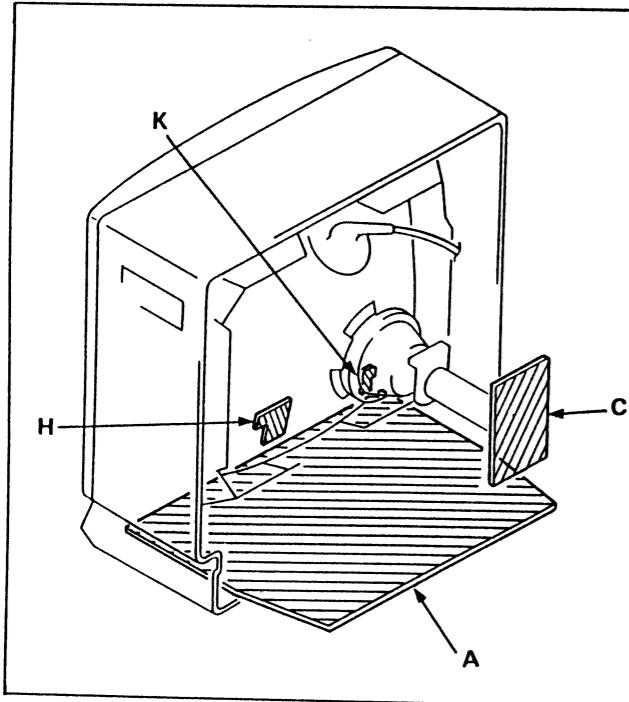
88

A VIF, SIF, Y AMP, CL EXTERNA

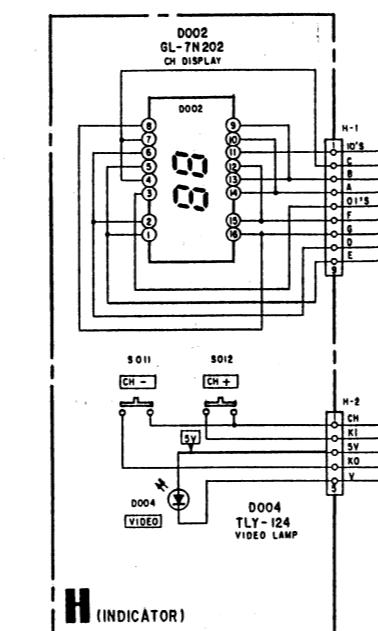
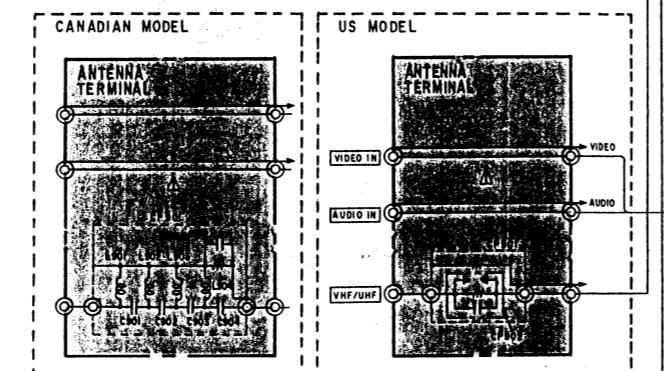
o	IC 501
D	301
ADJ	
TP	96 85



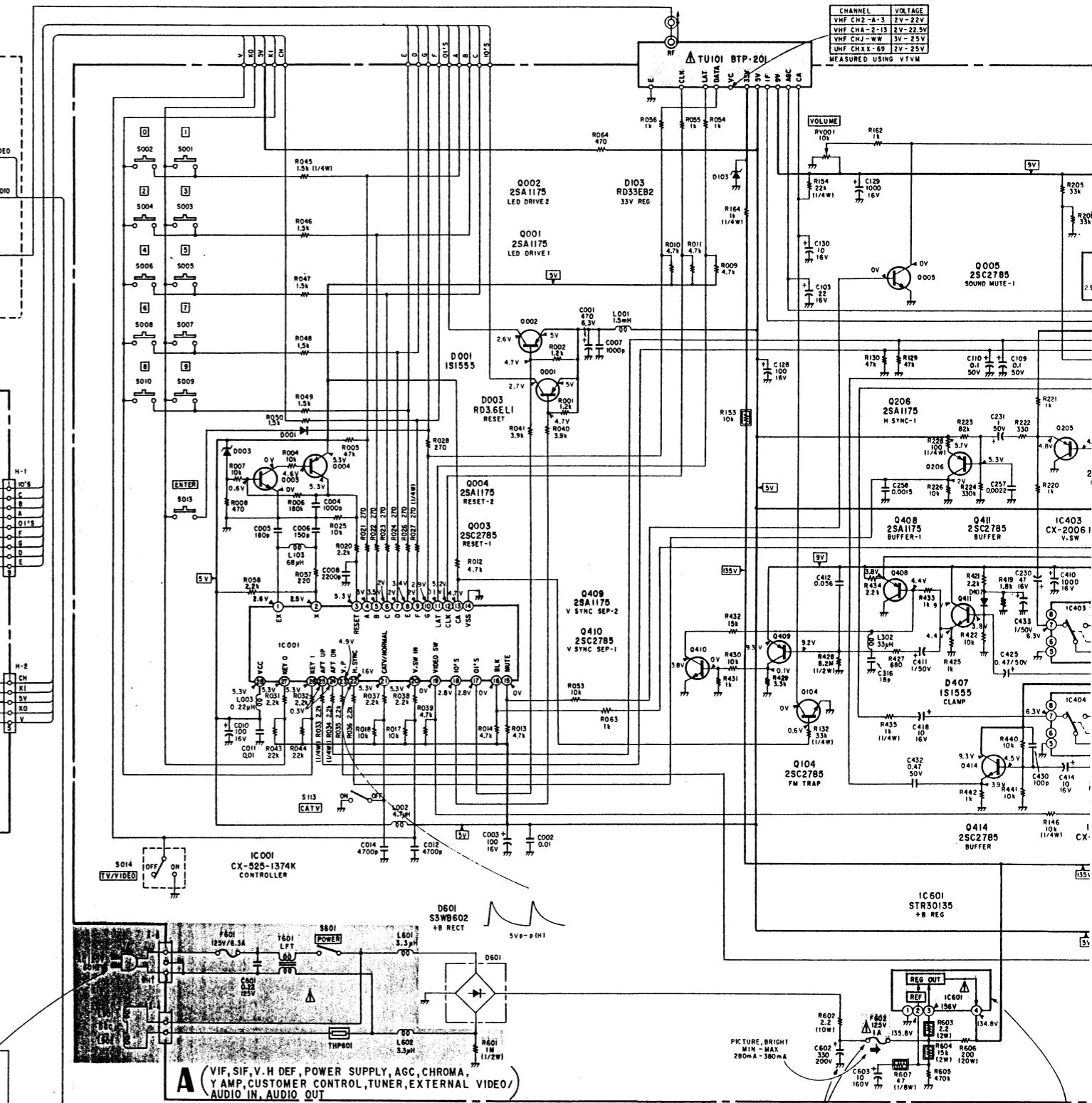
CIRCUIT BOARDS LOCATION



SCHEMATIC DIAGRAM



**CAUTION (US MODEL ONLY)**  
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.



**A** (VIF, SIF, V.H DEF, POWER SUPPLY, AGC, CHROMA, Y AMP, CUSTOMER CONTROL, TUNER, EXTERNAL VIDEO/AUDIO IN, AUDIO OUT)

**CAUTION**  
When taking a broken fuse (F602) off, discharge across C602 to avoid shock hazard.

When value.

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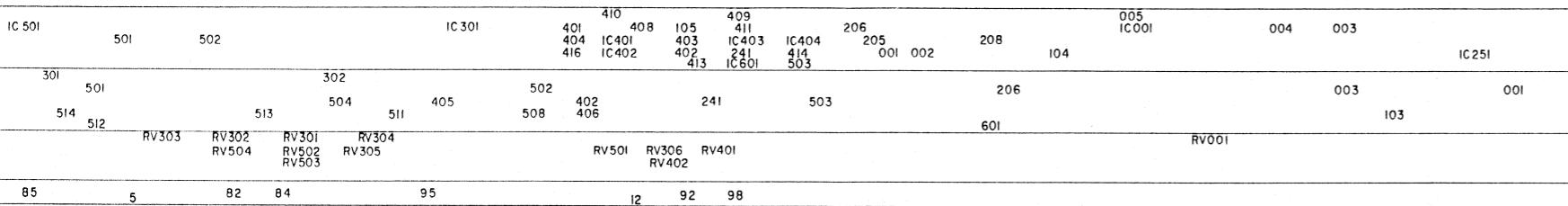
31

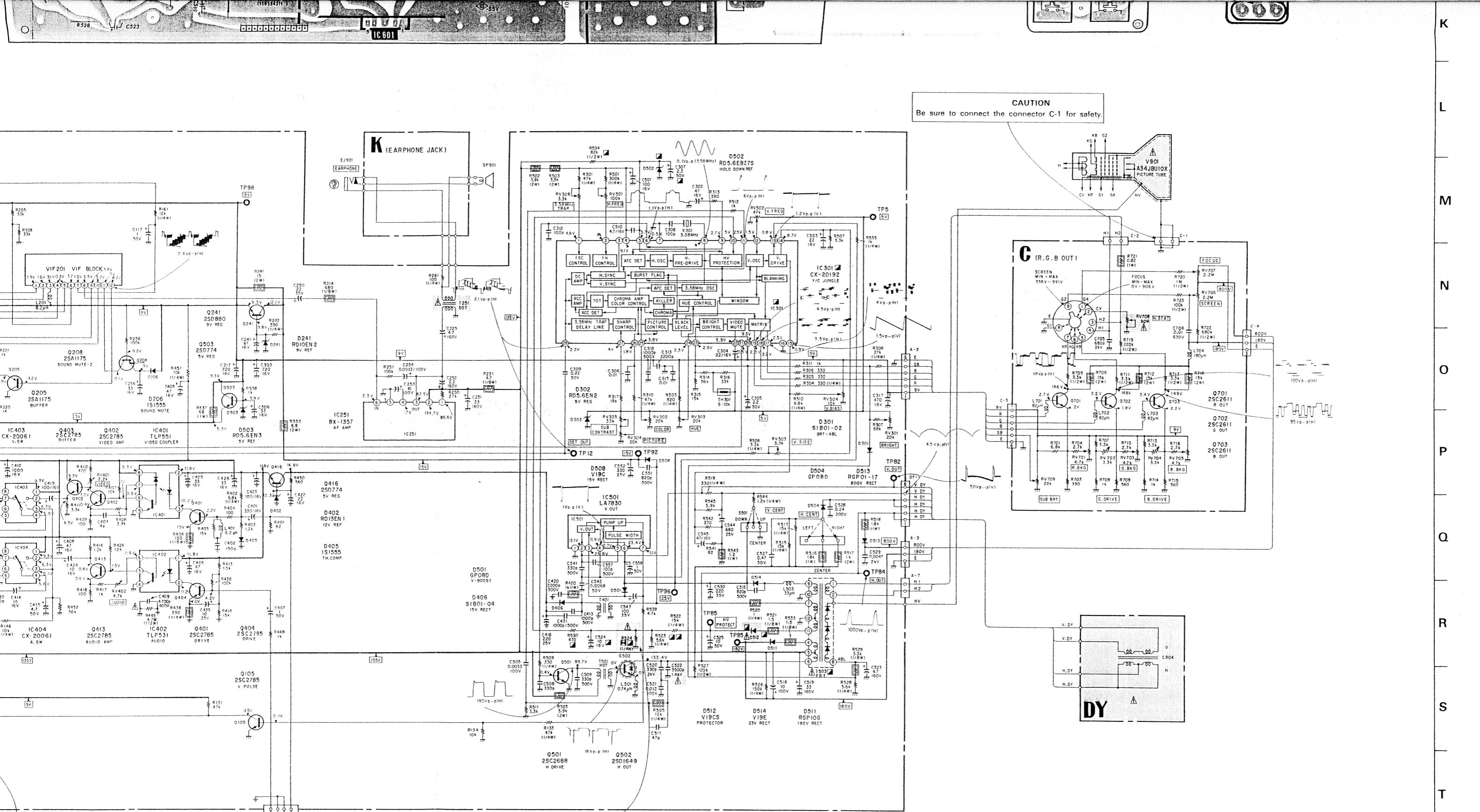
32

## WIRING BOARDS

Wiring diagrams are viewed  
from the component side.

F, SIF, V.H DEF, POWER SUPPLY, AGC, CHROMA,  
AMP, CUSTOMER CONTROL, TUNER,  
INTERNAL VIDEO/AUDIO IN, AUDIO OUT





**CAUTION**  
Be sure to check the +B line voltage  
in the Adjustment Section.

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